Knowledge for Creating and Sustaining the Built Environment

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: CHEROKEE NATION SALLY BULL COMMUNITY CENTER
475360 E 891 Rd, Stilwell, OK 74960

Substitution Request Number:

To: BLUE RIVER | PRECISION ENGINEERING GROUP

From: TYLER LYNCH

Date: 10/23/2026

A/E Project Number: 164954, 20210121.65

Re: TLYNCH@BELLANDMCCOY.COM

Contract For: CHEROKEE NATION

Specification Title: DIVISION 26 ELECTRICAL

Description: LIGHTING

Section: ELECTRICAL Page: E101

Article/Paragraph: FIXTURE SCHEDULES

Proposed Substitution: HUBBELL (COMPASS, DUAL-LITE, EXO), H.E. WILLIAMS, LUTRON, SPECTRUM

Manufacturer: ABOVE Address: 1209 S FRANKOMA, STE. 100. TULSA, OK 74120 Phone: 918-280-1102

Trade Name: BELL & MCCOY LIGHTING AND CONTROLS Model No.: ALL TYPES

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: TYLER LYNCH

Signed by: Tyler Lynch

Firm: BELL & MCCOY LIGHTING AND CONTROLS

Address: 1209 S FRANKFORT AVE, STE 100
TULSA, OK 74120

Telephone: 918-280-1102

A/E's REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

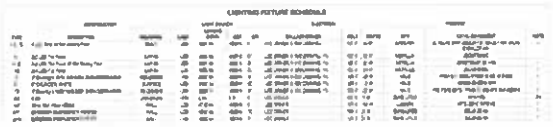
Signed by: Date:

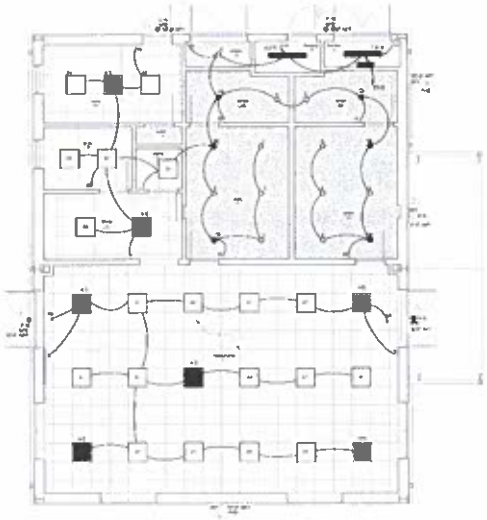
Supporting Data Attached: ☐ Drawings ☒ Product Data ☒ Samples ☒ Tests ☒ Reports ☒ _____

Attach to E-Mail | Print a Copy | Save a Copy | Attach a file | Reset Form

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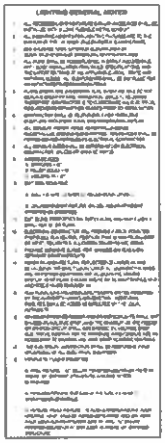
LIGHTING FIXTURE SCHEDULE





A LIGHTING PLAN

LIGHTING GENERAL NOTES



blue river ARCHITECTS

SALLY BULL COMMUNITY CENTER

SALLY BULL DRIVE, OKLAHOMA

E101 LIGHTING PLAN

blueriver ARCHITECTS

LIGHTING PLAN

E101

BELL & McCOY
LIGHTING AND CONTROLS

Bell & McCoy Lighting and Controls
11 NE 11th St., Suite 101
Oklahoma City OK 73104
Phone: (405) 348-3636

Date: Oct 23, 2026

Job Name
CHEROKEE NATION SALLY BULL COMMUNITY CENTER
OKLAHOMA26-85679
475360 E 891 Rd, Stilwell, OK 74960 OK

PETER A. HILGER, PE
Mechanical & Electrical Consulting & services
The attached submittal has been reviewed for general specifications. Contractor shall verify dimensions, quantities, coordination among trades, and compliance with contract documents and jurisdictional requirements.
The engineer will assume no responsibility for means and methods,
safety procedures or designs by contractor.

[X] Accepted (FOR BIDDING ONLY)	[ ] Accepted as Noted
[ ] Rejected submit specified item	[ ] Revise and resubmit
[ ] Not reviewed	[ ] Returned - not required

By: PAH Date: 10-28-2026

Bid Date
Nov 6, 2026

Submittal Date
Oct 23, 2026

Architect:
BLUE RIVER
320 S BOSTON STE 103
TULSA OK 74103

Engineer:
PRECISION ENGINEERING GROUP
5800 E SKELLY DR
TULSA OK 74135

BELL & McCOY
LIGHTING AND CONTROLS

Transmittal

Bell & McCoy Lighting and Controls
11 NE 11th St., Suite 101
Oklahoma City OK 73104
Phone: (405) 348-3636
From: TYLER LYNCH-TUL

Project **CHEROKEE NATION SALLY BULL COMMUNITY CENTER**
Quote# OKLAHOMA26-85679
Location 475360 E 891 Rd, Stilwell, OK 74960 OK
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

☐ Drawings ☐ Specifications Other:
☐ Prints ☐ Information
☐ Plans ☐ Submittals

THESE ARE TRANSMITTED FOR:

☐ Prior Approval ☐ Resubmittal for Approval ☐ Record
☐ Approval ☐ Corrections Bids due on:
☐ Approval as Submitted ☐ Your Use Other:
☐ Approval as Noted ☐ Review and Comment

Type	MFG	Part
(L)L1E	HE WILLIAMS, INC.	75S-4-L50/840-R1172-4-75LED-EM/10WLP-DIM-UNV
	4' LED STRIP/ SURF/ 5000LM/ 4K/ 010DIM/ UNV/ EMG/ REFL	
A1	HE WILLIAMS, INC.	BP-22-LS/8CS-QS-DIM-UNV
	2X2 LED FP/ GRID/ FS 2443-4899LM/ FS CCT/ 010DIM/ UNV	
A1E	HE WILLIAMS, INC.	BP-22-LS/8CS-EM/8W-QS-DIM-UNV
	2X2 LED FP/ GRID/ FS 2443-4899LM/ FS CCT/ 010DIM/ UNV/ EMG	
A2	HE WILLIAMS, INC.	BP-24-LS/8CS-QS-DIM-UNV
	2X4 LED FP/ GRID/ FS 3657-6071LM/ FS CCT/ 010DIM/ UNV	
C	HE WILLIAMS, INC.	6FDR-LS/8CS-CS-DIM-UNV-6FDR-N-F1
	6" LED DWN/ NC HSG/ FS 1,100/1,600/2,000LM/ FS CCT/ 010DIM/ UNV	
C1	SPECTRUM LIGHTING	C0812XT30L35KXWD010X/WL/TSG/SM/MW
	8" DIA x 12"H LED CYL/ SURF/ WET/ 3000LM/ 35K/ 010DIM1%/ UNV/ WHT	
CE	HE WILLIAMS, INC.	6FDR-LS/8CS-CS-EM/10W-DIM-UNV-6FDR-N-F1
	6" LED DWN/ NC HSG/ FS 1,100/1,600/2,000LM/ FS CCT/ 010DIM/ UNV/ EMG	
EX	COMPASS	CERG
	1/2F LED THERMO EXIT/ RED-GRN/ 90MIN/ UNV/ WHT	
WP	EXO LIGHTING	WGH1-50-LSCS-UNVC
	LED WALLPK/ FS 3200-7520LM/ FS CCT/ 010DIM/ UNV/ BRZ	
WP1	DUAL-LITE	PGXX
	LED EGRESS/ WET/ 90MIN/ UNV	
WPE	DUAL-LITE	PGXX
	LED EGRESS/ WET/ 90MIN/ UNV	
$OS	LUTRON	MS-OPS6M2-DV-WH
	MAESTRO DV 6A OCC 3WY WHITE	

BELL & McCOY
LIGHTING AND CONTROLS

Oct 23, 2026

RE: CHEROKEE NATION SALLY BULL COMMUNITY CENTER
475360 E 891 Rd, Stilwell, OK 74960 OK

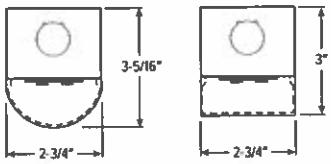
Type	MFG	Part
(L)L1E	HE WILLIAMS, INC.	75S-4-L50/840-R1172-4-75LED-EM/ 10WLP-DIM-UNV
	4' LED STRIP/ SURF/ 5000LM/ 4K/ 010DIM/ UNV/ EMG/ REFL	
A1	HE WILLIAMS, INC.	BP-22-LS/8CS-QS-DIM-UNV
	2X2 LED FP/ GRID/ FS 2443-4899LM/ FS CCT/ 010DIM/ UNV	
A1E	HE WILLIAMS, INC.	BP-22-LS/8CS-EM/8W-QS-DIM-UNV
	2X2 LED FP/ GRID/ FS 2443-4899LM/ FS CCT/ 010DIM/ UNV/ EMG	
A2	HE WILLIAMS, INC.	BP-24-LS/8CS-QS-DIM-UNV
	2X4 LED FP/ GRID/ FS 3657-6071LM/ FS CCT/ 010DIM/ UNV	
C	HE WILLIAMS, INC.	6FDR-LS/8CS-CS-DIM-UNV-6FDR-N-F1
	6" LED DWN/ NC HSG/ FS 1,100/1,600/2,000LM/ FS CCT/ 010DIM/ UNV	
C1	SPECTRUM LIGHTING	C0812XT30L35KXWD010X/WL/TSG/ SM/MW
	8" DIA x 12"H LED CYL/ SURF/ WET/ 3000LM/ 35K/ 010DIM1%/ UNV/ WHT	
CE	HE WILLIAMS, INC.	6FDR-LS/8CS-CS-EM/10W-DIM-UNV-6FDR-N-F1
	6" LED DWN/ NC HSG/ FS 1,100/1,600/2,000LM/ FS CCT/ 010DIM/ UNV/ EMG	
EX	COMPASS	CERG
	1/2F LED THERMO EXIT/ RED-GRN/ 90MIN/ UNV/ WHT	
WP	EXO LIGHTING	WGH1-50-LSCS-UNVC
	LED WALLPK/ FS 3200-7520LM/ FS CCT/ 010DIM/ UNV/ BRZ	
WP1	DUAL-LITE	PGXX
	LED EGRESS/ WET/ 90MIN/ UNV	
WPE	DUAL-LITE	PGXX
	LED EGRESS/ WET/ 90MIN/ UNV	
$OS	LUTRON	MS-OPS6M2-DV-WH
	MAESTRO DV 6A OCC 3WY WHITE	

Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** 75S-4-L50/840-R1172-4-75LED-EM/10WLP-DIM-UNV Notes:	**Type:** (L)L1E OKLAHOMA26-85679

75R | 75S LED Narrow Strip

Williams





75R Shown 75S Shown

CATALOG #. _____

TYPE: _____

PROJECT: _____

FEATURES

- Small fixture profile allows inconspicuous placement in confined spaces
- Round and square lenses provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption
- Diffuse acrylic lens enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution
- HE option delivers superior efficacies up to 193 lm/W
- Optional wireguard provides added protection
- Available on QuickShip at hew.com/75R_quickship.pdf and hew.com/75S_quickship.pdf
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- SHIELDING – Diffuse acrylic lens. Frosted polycarbonate available for 75R, specify FP Option.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED board. L70 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 25°C maximum ambient operating temperature. 50°C max with HA50 Option. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
  - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
  - UL 924 available, see Options.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 75R · 4 · L30/835 · OPTIONS · CONTROL/DIM · UNV

SERIES

- 75R Round lens
- 75S Square lens

LENGTH

- 2 22-1/2"
- 3 33-9/16"
- 4 44-5/8"
- 8 89-1/4" [2]

LUMENS [1]

2'		3'	
L15	1,500lm	Single CCT only	
L25	2,500lm	L40	4,000lm
Single CCT only		L64	6,400lm
L32	3,200lm		
L42	4,200lm		
L60	6,000lm		

4'		8'	
L30	3,000lm	L60	6,000lm
L50	5,000lm	L100	10,000lm
Single CCT only		Single CCT only	
L65	6,500lm	L130	13,000lm
L85	8,500lm	L170	17,000lm
L100	10,000lm	L200	20,000lm
L120	12,000lm	L240	24,000lm

CRI

- 8 80
- 9 90

CCT

- 27 2700K
- 30 3000K
- 35 3500K
- 40 4000K
- 50 5000K
- TW Tunable white (3000K-5000K)
- TW2 Tunable white (2700K-6500K)

OPTIONS [3]

See page 3 for FINISH OPTIONS.
See page 3 for SPECIAL REFLECTOR OPTIONS.
See page 3 for QUICK-CONNECT OPTIONS.

EM/10WLP	Low-profile 10-watt emergency battery [4]
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch
EM/10W/ST	10-watt self-diagnostic emergency battery [6]
HE	High efficacy lumen package [6]
HA	High ambient operating temperature, 40°C [7]
HA50	High ambient operating temperature, 50°C [8]
WG-75	11-gauge white powder coat wireguard [9]
315	1-1/2" ceiling spacer
VBY	(2) Y-hangers
VBY-2	(2) Y-hangers with 2' chains
RA-75	Row aligner [10]
45AMB	(2) 45° adjustable mounting brackets [11]
FP	Frosted polycarbonate lens for 75R
(L__)	Additional lower lumen packages available [12] Example: 7,000 nominal lumens = 75R-4-L85/835-(L70)
QC__	Quick-connect wiring harness
GEN	Approved for UL 924 emergency generator circuit through-feed wiring [13]
SP1	10kV surge protection, 120 or 277V
SP2	10kV surge protection, 208 or 240V
SP3	10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) [14]

Prefix		Type		Length	
ACF/	Feeder	D	1" grid & hardpan	24	24"
ACJ/	Joiner	N	9/16" grid	48	48"
		S	Slot grid	96	96"

CONTROL

Click HERE for linear control and sensor options.

Click HERE for industrial control and sensor options.

– None

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

- DIM Driver with external 0-10V dimming wires [15]
- DIM1 1% Driver with external 0-10V dimming wires [17]
- DRV Driver without external dimming wires [18]

VOLTAGE

- 120 120V
- 208 208V
- 240 240V
- 277 277V
- UNV 120-277V
- 347 347V [14]

NOTES

1. Lumen output based on 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
2. Ships with (2) 4' lenses.
3. Remote EM batteries: max remote distance 50', including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for REMOTE MOUNT BATTERY DETAILS.
4. Not available with 2' fixtures, 4' L120 or 8' L240 lumen packages.
5. Not available with 2' fixtures, 4' L120 or 8' L240 lumen packages.
6. Not available with tunable white or 90 CRI, 3' Length, 2' L15, 4' L30, or 8' L60 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA.
7. Not available with 2' L60, 4' L120 and 8' L240 lumen packages. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
8. Lumen restrictions apply: L32 max for 2', L40 max for 3', L65 max for 4', L130 max for 8'. Not available with EM batteries.
9. Shipped separately, field-installed.
10. Required when row mounting with aircraft cables.
11. Cord recommended, ships separately. See page 4 for MOUNTING ACCESSORY DETAILS. Field-adjustable up and down in 7-1/2" increments.
12. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
13. Maximum mounting height is 15.4' (4.7 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
14. Units specified with aircraft cable require cord and RA-75 row aligner. See page 4 for MOUNTING ACCESSORY DETAILS.
15. Not available with Tunable White or EM batteries.
16. 0.1% Driver with tunable white.
17. Not available with tunable white.
18. Not available with tunable white.

75R | 75S LED Narrow Strip

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD WATTAGE	STANDARD EFFICACY (lm/W)	HE OPTION [1] WATTAGE	HE OPTION [1] EFFICACY (lm/W)	AMBIENT TEMPERATURE (°C) HA OPTION w/EM	HA OPTION NO EM	HA50 OPTION NO EM
2'	L15	1509	10.7	141	–	–	40	40	50
	L25	2531	16.9	149	14.7	172	40	40	50
	L32	3337	22.6	148	17.3	193	40	40	50
	L42	4262	30.0	140	25.9	165	35	40	–
	L60	6093	42.5	143	35	174	–	–	–
3'	L40	4040	26.8	151	–	–	35	40	50
	L64	6541	46.0	142	–	–	30	35	–
4'	L30	3084	19.7	157	–	–	40	40	50
	L50	5062	33.4	152	27.4	185	40	40	50
	L65	6516	43.9	149	35.4	184	40	40	50
	L85	8524	60.6	141	48.2	177	35	40	–
	L100	10110	68.1	149	57.9	175	30	30	–
	L120	12041	82.9	145	70.4	171	–	–	–
8'	L60	5841	35.9	163	–	–	40	40	50
	L100	10124	67.1	151	53.7	189	35	35	50
	L130	13031	87.0	150	71.7	182	35	35	50
	L170	17047	121.1	141	95.1	179	35	35	–
	L200	20219	136.1	149	115.7	175	30	30	–
	L240	24082	165.7	145	140.8	171	–	–	–

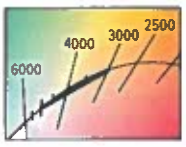
MULTIPLIER TABLE

	CCT	COLOR TEMPERATURE STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

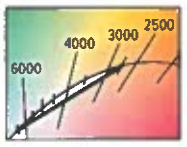
[1] Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

TW

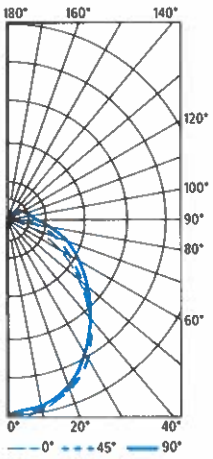


TW2



PHOTOMETRY

75R-4-L30/835 Total Luminaire Output: 3084 lumens; 19.7 Watts | Efficacy: 157 lm/W | 80 CRI, 3500K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	988	988	988	
5	999	984	972	94
15	953	951	944	268
25	859	878	885	403
35	729	777	804	481
45	564	637	695	488
55	382	494	567	432
65	236	359	425	339
75	102	240	295	233
85	24	153	191	144
90	3	118	155	
95	0	95	125	86
105	0	57	83	52
115	0	36	57	31
125	0	20	39	18
135	0	11	24	9
145	0	5	13	4
155	0	2	6	1
165	0	0	1	0
175	0	0	0	0
180	0	0	0	

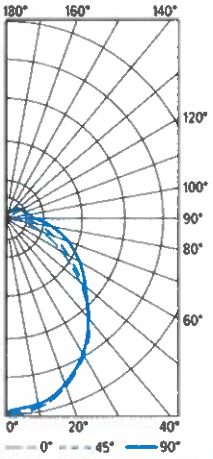
LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	765	25
0 - 40	1246	40
0 - 60	2166	70
0 - 90	2883	94
90 - 120	169	6
90 - 150	200	7
90 - 180	201	7
0 - 180	3084	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

75R | 75S LED Narrow Strip

75S-4-L30/835 Total Luminaire Output: 3084 lumens; 19.7Watts | Efficacy: 157 lm/ W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

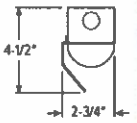
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1041	1041	1041	
5	1050	1036	1021	98
15	1003	994	982	279
25	895	900	885	412
35	750	765	749	475
45	578	592	603	460
55	401	442	492	400
65	236	320	389	315
75	103	206	284	214
85	18	123	187	126
90	0	94	148	
95	0	88	131	85
105	0	76	111	70
115	0	65	98	57
125	0	53	82	42
135	0	37	63	27
145	0	22	43	14
155	0	14	24	6
165	0	7	12	2
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY

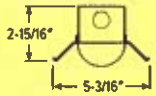
ZONE	LUMENS	% FIXTURE
0 - 30	790	26
0 - 40	1265	41
0 - 60	2125	69
0 - 90	2780	90
90 - 120	212	7
90 - 150	296	10
90 - 180	304	10
0 - 180	3084	100

SPECIAL REFLECTOR OPTIONS

R1015



R1172



Reflectors ordered and shipped separately. Cannot be used with wireguard accessories. To remove reflector, first remove the lens.

Example: R1172-4-75LED REFL

QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

FINISH OPTIONS

WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____

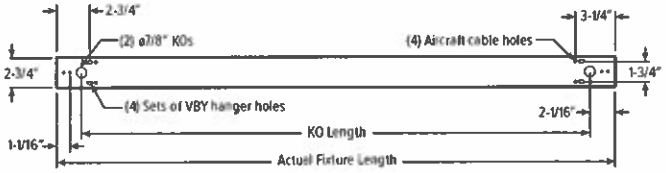


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

75R | 75S LED Narrow Strip

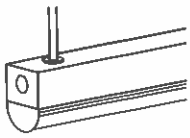
FIXTURE DETAILS

BACKVIEW



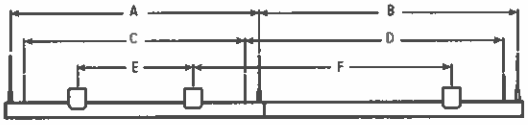
	7/8" KOs	ACTUAL FIXTURE LENGTH
2'	18-3/8"	22-1/2"
3'	29-1/2"	33-9/16"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

POWER ENTRY



MOUNTING ACCESSORY DETAILS

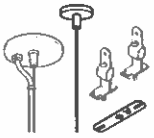
STAND ALONE SUBSEQUENT



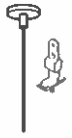
MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3'	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Power End or Stand-Alone



Row Mount Support

Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.
- Cable kit provides 10/32 male thread for connection to fixture.

CORD FOR SUSPENDED PRODUCT

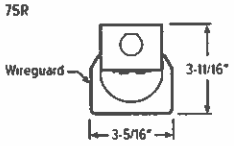
Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	24 24" 48 48" 96 96"	3 4 5 [1] 6 [1]	8D 18ga	/W White /B Black

[1] Includes (2) 22ga purple & pink dimming conductors

WG-75

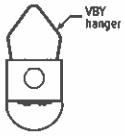
75R



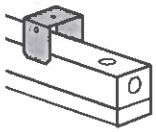
75S



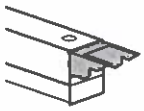
VBY



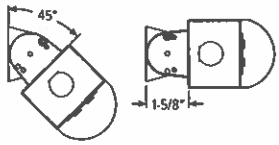
315



RA-75



45AMB



REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



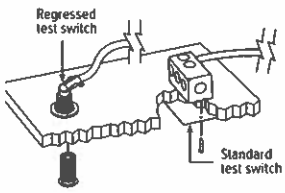
Regressed test switch ø1-3/4"

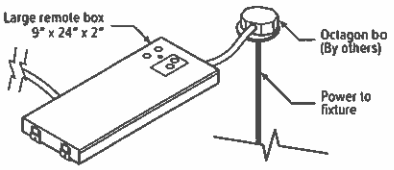
EM/10WRM



Standard test switch 2-3/4" x 4-1/2"

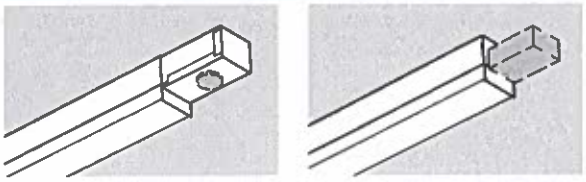
Max remote distance is 50' including suspension length, connection by others.





75R | 75S LED Narrow Strip

SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

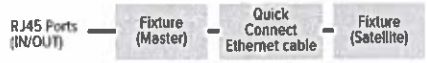
[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX



DALI



LD2

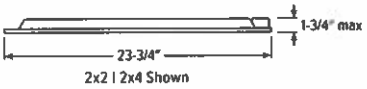


Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** BP-22-LS/8CS-QS-DIM-UNV Notes:	**Type:** A1 OKLAHOMA26-85679

BP FieldSELECT™ Backlit Flat Panel

Williams





2x2 | 2x4 Shown

CATALOG #: _____

TYPE: _____

PROJECT: _____

DLC LISTED · Low UGR · IP5X Rated · NSF COMPONENT

FEATURES

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Backlit LED technology provides efficient and uniform lighting
- Simple and quick installation
- Seamless design prevents light leak
- Low UGR meets LEED and WELL requirements
- Skylight kit creates architectural design aesthetic
- Surface mount kit provides design continuity where ceiling access is restricted
- Optional factory-installed battery backup provides 90 minutes of emergency illumination
- Shipped in 2-packs to reduce job-site waste
- PMMA lens reduces the risk of yellowing from UV exposure
- Rigid back enclosure prevents warping
- Rated for direct contact with insulation
- Available on QuickShip at hew.com/BP_quickship.pdf

SPECIFICATIONS

- HOUSING – Aluminum frame with steel die-formed back enclosure.
- OPTICS – Backlit PMMA lenses with PS diffuser.
- FINISH – Non-glare matte white polyester powder coat. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 >50,000 hours per IES TM-21. 45°C max ambient operating temperature.
  50/60 Hz constant current driver.
- MOUNTING – NEMA Type "G" 15/16" or 1" grid standard. Factory-installed earthquake clips provided for NEMA Type "NFG" and "SG" 9/16" grid installations. Skylight, surface mount, drywall kit and suspended available, shipped separately, see options.
- LISTINGS –
  - cULus listed as LED luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - NSF/ANSI Standard 2-Splash Zone certified.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL
- WARRANTY – 5-year limited fixture warranty, see hew.com/warranty

ORDERING EXAMPLE: BP · 24 · LS/8CS · OPTIONS · DIM · UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT
BP	1 1' [2] 2 2'	2 2' [3] 4 4'	LS Selectable lumens 1x4: 2,500/3,700/4,900 2x2: 2,500/3,800/4,900 2x4: 3,800/5,000/6,100	8 80	CS Selectable CCT 3,500K/4,000K/5,000K

OPTIONS

		DRIVER	VOLTAGE
EM/8W	8-watt emergency battery	DIM Dim-to-off driver [9]	UNV 120-277V
EM/10W KIT-DC-QS	10-watt emergency battery kit, dual conduit [4]		

DRYWALL FRAME-IN KITS [5]

DFK-1248W	Drywall kit, 12"x48", white
DFK-2424W	Drywall kit, 24"x24", white
DFK-2448W	Drywall kit, 24"x48", white

SUSPENSION KITS (EXAMPLE: BP22W/D48) [6]

Size	Color	Type	Length
BP14 1'x4'	W White	D 1" grid & hardpan	24 24"
BP22 2'x2'	B Black		48 48"
BP24 2'x4'			96 96"

SURFACE MOUNT KITS [7]

BP14SMK-W	Surface mount kit, 1'x4', white
BP22SMK-W	Surface mount kit, 2'x2', white
BP24SMK-W	Surface mount kit, 2'x4', white

SKYLIGHT KITS [8]

BP142SL-W	Skylight, 1'x4', 2" depth, white
BP222SL-W	Skylight, 2'x2', 2" depth, white
BP242SL-W	Skylight, 2'x4', 2" depth, white

NOTES

1. Lumens based on 4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 4' length only.
3. 2' width only.
4. Ships separately, field installed. CEC compliant.
5. Shipped separately, field installed. See page 3 for DRYWALL KIT (DFK) OPTIONS. DFK and BP housing colors are not identical.
6. Provided with cord, (4) adjustable aircraft cables for (1) 5" power feed canopy and (3) 2" support canopies. See page 3 for SUSPENDED MOUNT DETAILS.
7. Shipped separately, field installed. See page 4 for SURFACE MOUNT DETAILS.
8. Earthquake clips standard, 4 per fixture. Shipped separately, field installed. See page 4 for SKYLIGHT DETAILS.
9. Prewired for 0-10V low-voltage applications. Dimming down to 5%, dim-to-off below 0.5V

BP FieldSELECT
Backlit Flat Panel

FIXTURE PERFORMANCE DATA

	WATTAGE SETTING	3500K LUMEN OUTPUT	3500K WATTAGE	3500K EFFICACY (lm/W)	4000K LUMEN OUTPUT	4000K WATTAGE	4000K EFFICACY (lm/W)	5000K LUMEN OUTPUT	5000K WATTAGE	5000K EFFICACY (lm/W)
1x4	20	2592	19.8	131.1	2508	19.3	129.9	2451	19.6	124.8
	30	3627	29.7	122.0	3739	28.9	129.4	3602	29.6	121.6
	40	4660	39.9	116.8	4873	38.5	126.5	4637	39.8	116.6
2x2	20	2443	20.1	121.3	2548	19.5	130.7	2483	20.0	123.9
	30	3560	30.5	116.7	3778	29.4	128.5	3623	30.4	119.2
	40	4543	41.2	110.3	4899	39.4	124.4	4627	41.1	112.7
2x4	30	3657	28.9	126.5	3809	28.1	135.7	3722	28.8	129.2
	40	4700	38.5	122.1	4956	37.3	132.9	4794	38.5	124.6
	50	5699	48.6	117.2	6071	47.0	129.3	5811	48.6	119.5

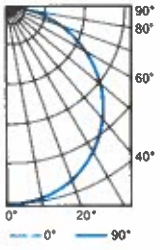
UNIFIED GLARE RATING (UGR) [1]	
CROSSWISE	ENDWISE
19.8	19.8
21.2	21.2
22.1	22.1
19.6	19.5
21.0	20.9
21.9	21.8
18.5	18.4
19.5	19.4
20.2	20.1

- Results based on 80 CRI/4000K CCT, actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

[1] UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

PHOTOMETRY

BP-14-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3739 lumens; 28.9 Watts | Efficacy: 129.4 lm/W | 80 CRI; 4000K CCT



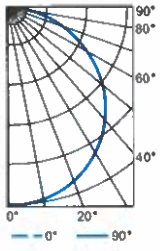
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1329	1329	1329	
5	1330	1330	1330	126
15	1280	1281	1285	360
25	1180	1186	1190	542
35	1022	1027	1034	645
45	871	880	883	675
55	667	668	673	599
65	467	467	465	457
75	242	237	238	258
85	68	65	62	77
90	4	5	4	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1028	28
0 - 40	1673	45
0 - 60	2947	79
0 - 90	3739	100
0 - 180	3739	100

BP-22-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3778 lumens; 29.4 Watts | Efficacy: 128.5 lm/W | 80 CRI; 4000K CCT



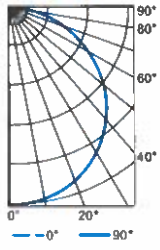
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1330	1330	1330	
5	1331	1325	1321	126
15	1286	1279	1276	361
25	1198	1191	1189	549
35	1062	1058	1057	662
45	897	889	891	687
55	695	684	689	615
65	471	467	461	461
75	246	238	237	254
85	48	43	44	61
90	0	1	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1036	27
0 - 40	1699	45
0 - 60	3001	79
0 - 90	3778	100
0 - 180	3778	100

BP-24-LS/8CS-DIM-UNV_40W Total Luminaire Output: 4956 lumens; 37.3 Watts | Efficacy: 132.9 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1749	1749	1749	
5	1744	1741	1741	166
15	1662	1665	1670	472
25	1546	1555	1563	714
35	1338	1352	1369	851
45	1165	1182	1199	903
55	888	900	912	802
65	621	625	632	611
75	318	316	316	340
85	89	86	84	98
90	7	5	5	

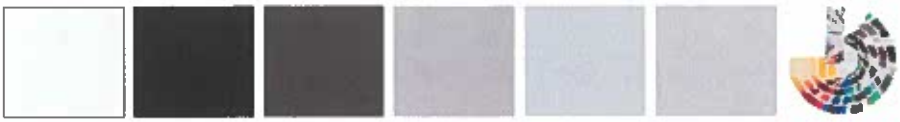
LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1352	27
0 - 40	2202	44
0 - 60	3907	79
0 - 90	4956	100
0 - 180	4956	100

FINISH OPTIONS

SURFACE AND SKYLIGHT KITS ONLY.

WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____

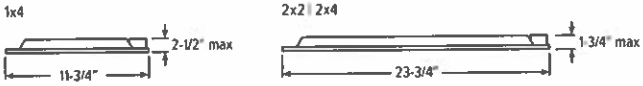


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

BP FieldSELECT™ Backlit Flat Panel

RECESSED DETAILS

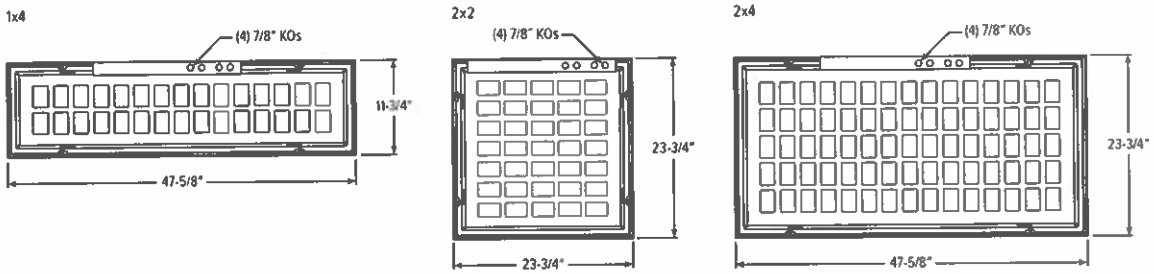
END VIEW



FIELDSELECT DETAILS



BACK VIEW



DRYWALL KIT (DFK) OPTIONS

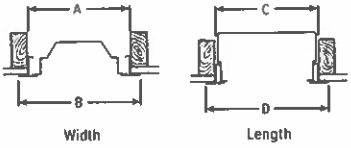
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	12 1' 24 2' 24 2'	48 4' 24 2' 48 4'	W White AMW Anti-microbial white

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

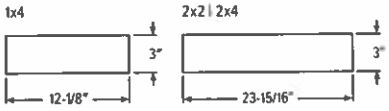
TYPICAL INSTALLATION



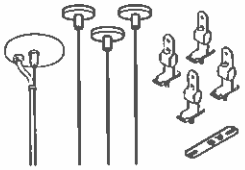
SUSPENDED MOUNT DETAILS



END VIEW

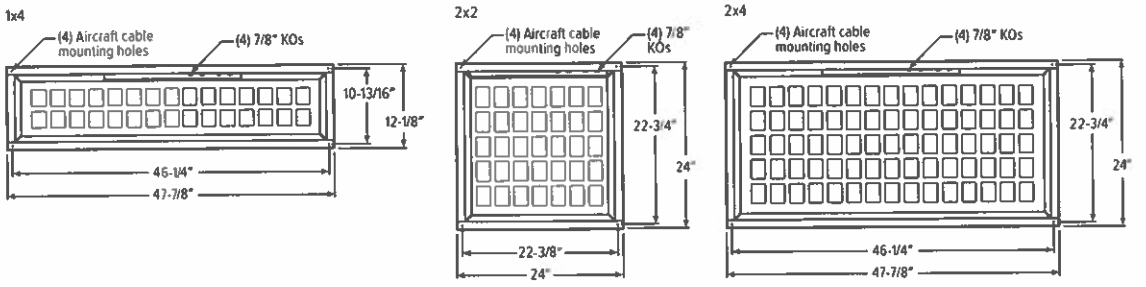


STANDARD HARDWARE (Grid & Hardpan)



- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Cord provided (field installed).
- One 5" canopy used at power feed location. Other suspension points use 2" canopy at the non-feed point.

BACK VIEW

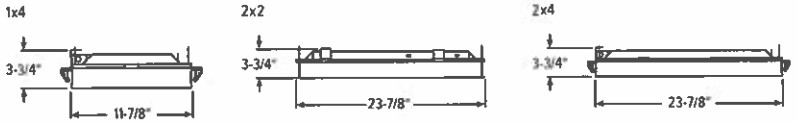


BP FieldSELECT™ Backlit Flat Panel

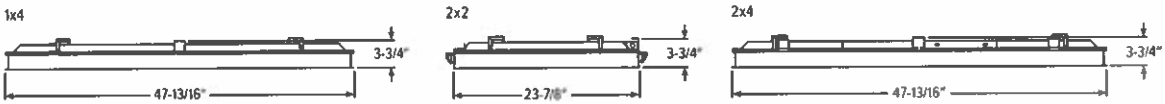
SKYLIGHT DETAILS



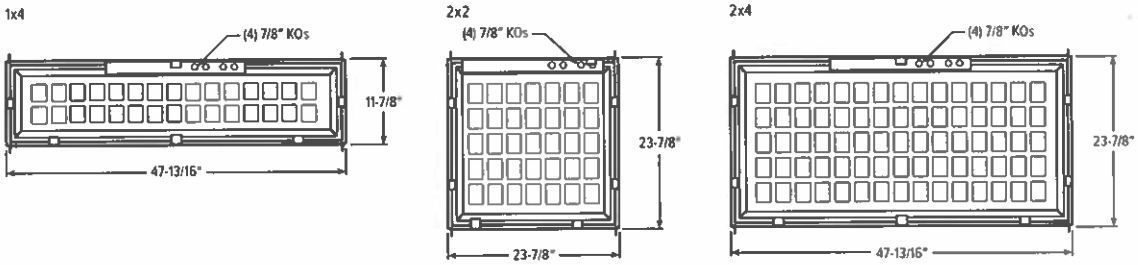
END VIEW



SIDE VIEW



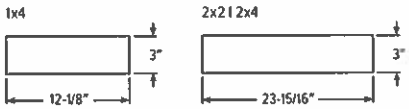
BACK VIEW



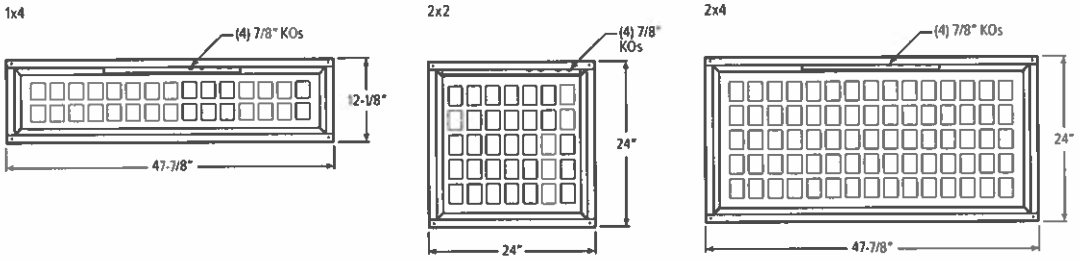
SURFACE MOUNT DETAILS



END VIEW



BACK VIEW

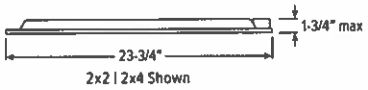


Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** BP-22-LS/8CS-EM/8W-QS-DIM-UNV Notes:	**Type:** A1E OKLAHOMA26-85679

BP FieldSELECT™ Backlit Flat Panel

Williams





CATALOG #: _____

TYPE: _____

PROJECT: _____

DLC LISTED · Low UGR · IP5X Rated · NSF COMPONENT

FEATURES

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Backlit LED technology provides efficient and uniform lighting
- Simple and quick installation
- Seamless design prevents light leak
- Low UGR meets LEED and WELL requirements
- Skylight kit creates architectural design aesthetic
- Surface mount kit provides design continuity where ceiling access is restricted
- Optional factory-installed battery backup provides 90 minutes of emergency illumination
- Shipped in 2-packs to reduce job-site waste
- PMMA lens reduces the risk of yellowing from UV exposure
- Rigid back enclosure prevents warping
- Rated for direct contact with insulation
- Available on QuickShip at hew.com/BP_quickship.pdf

SPECIFICATIONS

- HOUSING – Aluminum frame with steel die-formed back enclosure.
- OPTICS – Backlit PMMA lenses with PS diffuser.
- FINISH – Non-glare matte white polyester powder coat. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 >50,000 hours per IES TM-21. 45°C max ambient operating temperature. 50/60 Hz constant current driver.
- MOUNTING – NEMA Type "G" 15/16" or 1" grid standard. Factory-installed earthquake clips provided for NEMA Type "NFG" and "SG" 9/16" grid installations. Skylight, surface mount, drywall kit and suspended available, shipped separately, see options.
- LISTINGS –
  - cULus listed as LED luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - NSF/ANSI Standard 2-Splash Zone certified.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL
- WARRANTY – 5-year limited fixture warranty, see hew.com/warranty

ORDERING EXAMPLE: BP · 24 · LS/8CS · OPTIONS · DIM · UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT
BP	1 1' [3] 2 2'	2 2' [3] 4 4'	LS Selectable lumens 1x4: 2,500/3,700/4,900 2x2: 2,500/3,800/4,900 2x4: 3,800/5,000/6,100	8 80	CS Selectable CCT 3,500K/4,000K/5,000K

OPTIONS		DRIVER	VOLTAGE
EM/8W	8-watt emergency battery	DIM Dim-to-off driver [9]	UNV 120-277V
EM/10W KIT-DC-QS	10-watt emergency battery kit, dual conduit [4]		

DRYWALL FRAME-IN KITS [5]

DFK-1248W	Drywall kit, 12"x48", white
DFK-2424W	Drywall kit, 24"x24", white
DFK-2448W	Drywall kit, 24"x48", white

SUSPENSION KITS (EXAMPLE: BP22W/D48) [6]

Size	Color	Type	Length
BP14 1'x4'	W White	D 1" grid & hardpan	24 24"
BP22 2'x2'	B Black		48 48"
BP24 2'x4'			96 96"

SURFACE MOUNT KITS [7]

BP14SMK-W	Surface mount kit, 1'x4', white
BP22SMK-W	Surface mount kit, 2'x2', white
BP24SMK-W	Surface mount kit, 2'x4', white

SKYLIGHT KITS [8]

BP142SL-W	Skylight, 1'x4', 2" depth, white
BP222SL-W	Skylight, 2'x2', 2" depth, white
BP242SL-W	Skylight, 2'x4', 2" depth, white

NOTES

1. Lumens based on 4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 4' length only.
3. 2' width only.
4. Ships separately, field installed. CEC compliant.
5. Shipped separately, field installed. See page 3 for DRYWALL KIT (DFK) OPTIONS. DFK and BP housing colors are not identical.
6. Provided with cord, (4) adjustable aircraft cables for (1) 5" power feed canopy and (3) 2" support canopies. See page 3 for SUSPENDED MOUNT DETAILS.
7. Shipped separately, field installed. See page 4 for SURFACE MOUNT DETAILS.
8. Earthquake clips standard, 4 per fixture. Shipped separately, field installed. See page 4 for SKYLIGHT DETAILS.
9. Prewired for 0-10V low-voltage applications. Dimming down to 5%, dim-to-off below 0.5V

BP FieldSELECT™ Backlit Flat Panel

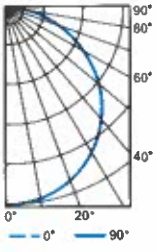
FIXTURE PERFORMANCE DATA

	WATTAGE SETTING	3500K LUMEN OUTPUT	3500K WATTAGE	3500K EFFICACY (lm/W)	4000K LUMEN OUTPUT	4000K WATTAGE	4000K EFFICACY (lm/W)	5000K LUMEN OUTPUT	5000K WATTAGE	5000K EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR) [1] CROSSWISE	UNIFIED GLARE RATING (UGR) [1] ENDWISE
1x4	20	2592	19.8	131.1	2508	19.3	129.9	2451	19.6	124.8	19.8	19.8
	30	3627	29.7	122.0	3739	28.9	129.4	3602	29.6	121.6	21.2	21.2
	40	4660	39.9	116.8	4873	38.5	126.5	4637	39.8	116.6	22.1	22.1
2x2	20	2443	20.1	121.3	2548	19.5	130.7	2483	20.0	123.9	19.6	19.5
	30	3560	30.5	116.7	3778	29.4	128.5	3623	30.4	119.2	21.0	20.9
	40	4543	41.2	110.3	4899	39.4	124.4	4627	41.1	112.7	21.9	21.8
2x4	30	3657	28.9	126.5	3809	28.1	135.7	3722	28.8	129.2	18.5	18.4
	40	4700	38.5	122.1	4956	37.3	132.9	4794	38.5	124.6	19.5	19.4
	50	5699	48.6	117.2	6071	47.0	129.3	5811	48.6	119.5	20.2	20.1

- Results based on 80 CRI/4000K CCT, actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- [1] UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

PHOTOMETRY

BP-14-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3739 lumens; 28.9 Watts | Efficacy: 129.4 lm/W | 80 CRI; 4000K CCT



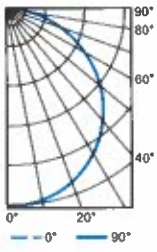
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1329	1329	1329	
5	1330	1330	1330	126
15	1280	1281	1285	360
25	1180	1186	1190	542
35	1022	1027	1034	645
45	871	880	883	675
55	667	668	673	599
65	467	467	465	457
75	242	237	238	258
85	68	65	62	77
90	4	5	4	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1028	28
0 - 40	1673	45
0 - 60	2947	79
0 - 90	3739	100
0 - 180	3739	100

BP-22-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3778 lumens; 29.4 Watts | Efficacy: 128.5 lm/W | 80 CRI; 4000K CCT



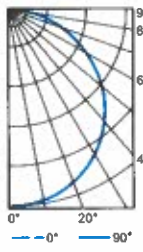
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1330	1330	1330	
5	1331	1325	1321	126
15	1286	1279	1276	361
25	1198	1191	1189	549
35	1062	1058	1057	662
45	897	889	891	687
55	695	684	689	615
65	471	467	461	461
75	246	238	237	254
85	48	43	44	61
90	0	1	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1036	27
0 - 40	1699	45
0 - 60	3001	79
0 - 90	3778	100
0 - 180	3778	100

BP-24-LS/8CS-DIM-UNV_40W Total Luminaire Output: 4956 lumens; 37.3 Watts | Efficacy: 132.9 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1749	1749	1749	
5	1744	1741	1741	166
15	1662	1665	1670	472
25	1546	1555	1563	714
35	1338	1352	1369	851
45	1165	1182	1199	903
55	888	900	912	802
65	621	625	632	611
75	318	316	316	340
85	89	86	84	98
90	7	5	5	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1352	27
0 - 40	2202	44
0 - 60	3907	79
0 - 90	4956	100
0 - 180	4956	100

FINISH OPTIONS

SURFACE AND SKYLIGHT KITS ONLY.

WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#___



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

BP FieldSELECT Backlit Flat Panel

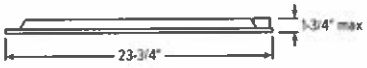
RECESSED DETAILS

END VIEW

1x4



2x2 | 2x4

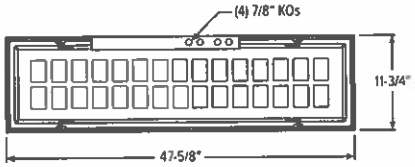


FIELDSELECT DETAILS

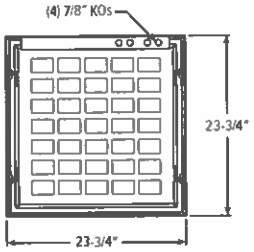


BACK VIEW

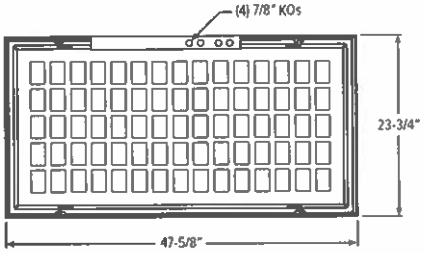
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2x2



2x4



DRYWALL KIT (DFK) OPTIONS

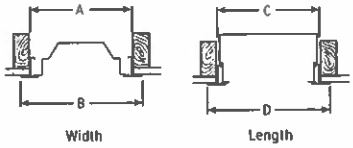
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	12 1'	48 4'	W White
	24 2'	24 2'	AMW Anti-microbial white
	24 2'	48 4'	

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

TYPICAL INSTALLATION

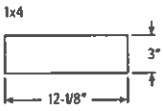


SUSPENDED MOUNT DETAILS

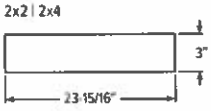


END VIEW

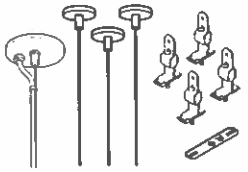
1x4



2x2 | 2x4



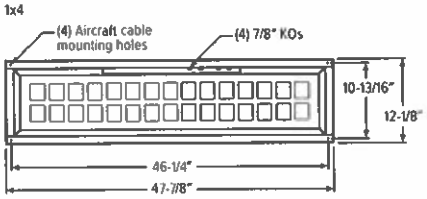
STANDARD HARDWARE (Grid & Hardpan)



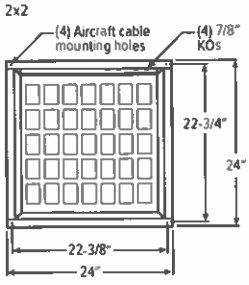
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Cord provided (field installed).
- One 5" canopy used at power feed location. Other suspension points use 2" canopy at the non-feed point.

BACK VIEW

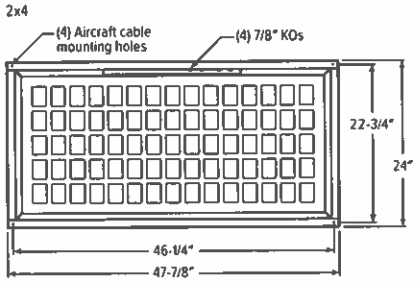
1x4



2x2

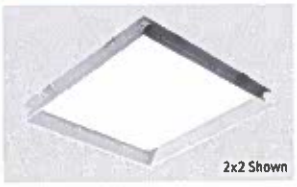


2x4

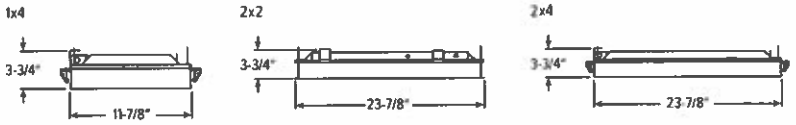


BP FieldSELECT Backlit Flat Panel

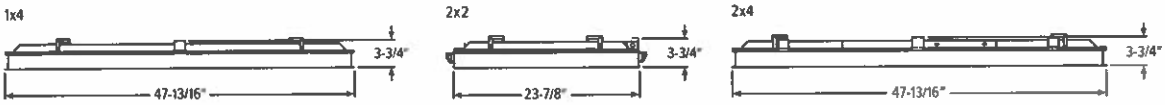
SKYLIGHT DETAILS



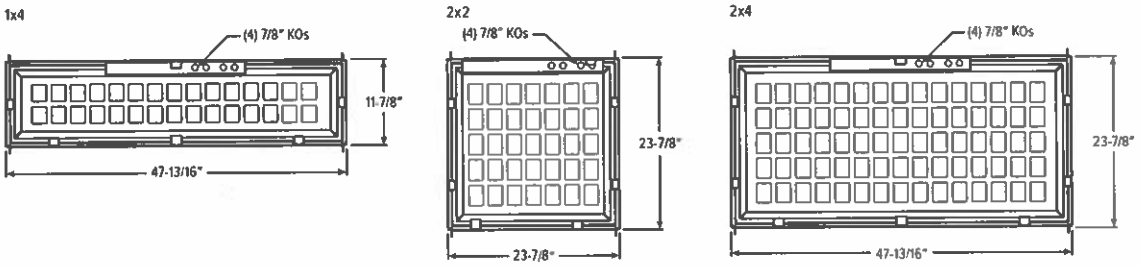
END VIEW



SIDE VIEW



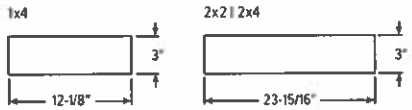
BACK VIEW



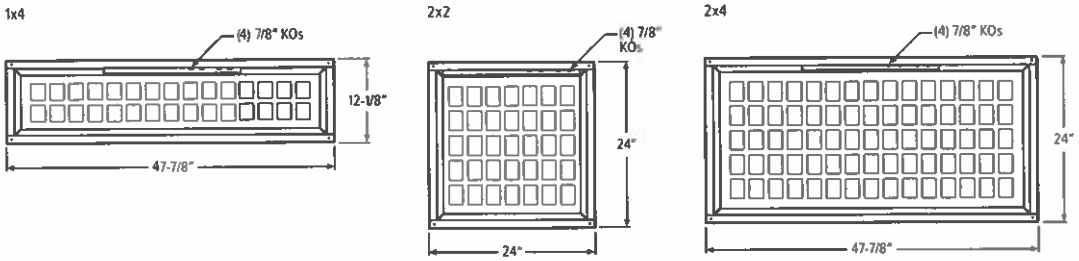
SURFACE MOUNT DETAILS



END VIEW



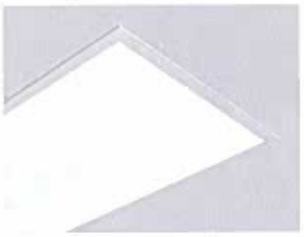
BACK VIEW

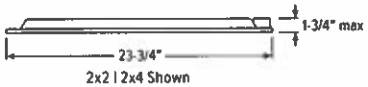


Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** BP-24-LS/8CS-QS-DIM-UNV Notes:	**Type:** A2 OKLAHOMA26-85679

BP FieldSELECT™ Backlit Flat Panel

Williams





CATALOG #: _____

TYPE: _____

PROJECT: _____

DLC LISTED | Low UGR | IP5X Rated | NSF COMPONENT

FEATURES

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Backlit LED technology provides efficient and uniform lighting
- Simple and quick installation
- Seamless design prevents light leak
- Low UGR meets LEED and WELL requirements
- Skylight kit creates architectural design aesthetic
- Surface mount kit provides design continuity where ceiling access is restricted
- Optional factory-installed battery backup provides 90 minutes of emergency illumination
- Shipped in 2-packs to reduce job-site waste
- PMMA lens reduces the risk of yellowing from UV exposure
- Rigid back enclosure prevents warping
- Rated for direct contact with insulation
- Available on QuickShip at hew.com/BP_quickship.pdf

SPECIFICATIONS

- HOUSING – Aluminum frame with steel die-formed back enclosure.
- OPTICS – Backlit PMMA lenses with PS diffuser.
- FINISH – Non-glare matte white polyester powder coat. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 >50,000 hours per IES TM-21. 45°C max ambient operating temperature. 50/60 Hz constant current driver.
- MOUNTING – NEMA Type "G" 15/16" or 1" grid standard. Factory-installed earthquake clips provided for NEMA Type "NFG" and "SG" 9/16" grid installations. Skylight, surface mount, drywall kit and suspended available, shipped separately, see options.
- LISTINGS –
  - cULus listed as LED luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - NSF/ANSI Standard 2-Splash Zone certified.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL
- WARRANTY – 5-year limited fixture warranty, see hew.com/warranty

ORDERING EXAMPLE: BP - 24 - LS/8CS - OPTIONS - DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT
BP	1 1' [2] 2 2"	2 2' [3] 4 4'	LS Selectable lumens 1x4: 2,500/3,700/4,900 2x2: 2,500/3,800/4,900 2x4: 3,800/5,000/6,100	8 80	CS Selectable CCT 3,500K/4,000K/5,000K

OPTIONS

		DRIVER	VOLTAGE
EM/8W	8-watt emergency battery	DIM Dim-to-off driver [9]	UNV 120-277V
EM/10W KIT-DC-QS	10-watt emergency battery kit, dual conduit [4]		

DRYWALL FRAME-IN KITS [5]

DFK-1248W	Drywall kit, 12"x48", white
DFK-2424W	Drywall kit, 24"x24", white
DFK-2448W	Drywall kit, 24"x48", white

SUSPENSION KITS (EXAMPLE: BP22W/D48) [6]

Size	Color	Type	Length
BP14 1'x4'	W White	D 1" grid & hardpan	24 24"
BP22 2'x2'	B Black		48 48"
BP24 2'x4'			96 96"

SURFACE MOUNT KITS [7]

BP14SMK-W	Surface mount kit, 1'x4', white
BP22SMK-W	Surface mount kit, 2'x2', white
BP24SMK-W	Surface mount kit, 2'x4', white

SKYLIGHT KITS [8]

BP142SL-W	Skylight, 1'x4', 2" depth, white
BP222SL-W	Skylight, 2'x2', 2" depth, white
BP242SL-W	Skylight, 2'x4', 2" depth, white

NOTES

1. Lumens based on 4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 4' length only.
3. 2' width only.
4. Ships separately, field installed. CEC compliant.
5. Shipped separately, field installed. See page 3 for DRYWALL KIT (DFK) OPTIONS. DFK and BP housing colors are not identical.
6. Provided with cord, (4) adjustable aircraft cables for (1) 5" power feed canopy and (3) 2" support canopies. See page 3 for SUSPENDED MOUNT DETAILS.
7. Shipped separately, field installed. See page 4 for SURFACE MOUNT DETAILS.
8. Earthquake clips standard, 4 per fixture. Shipped separately, field installed. See page 4 for SKYLIGHT DETAILS.
9. Prewired for 0-10V low-voltage applications. Dimming down to 5%, dim-to-off below 0.5V

BP FieldSELECT™ Backlit Flat Panel

FIXTURE PERFORMANCE DATA

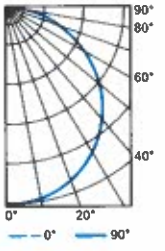
	WATTAGE SETTING	3500K LUMEN OUTPUT	3500K WATTAGE	3500K EFFICACY (lm/W)	4000K LUMEN OUTPUT	4000K WATTAGE	4000K EFFICACY (lm/W)	5000K LUMEN OUTPUT	5000K WATTAGE	5000K EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR) [1] CROSSWISE	UNIFIED GLARE RATING (UGR) [1] ENDWISE
1x4	20	2592	19.8	131.1	2508	19.3	129.9	2451	19.6	124.8	19.8	19.8
	30	3627	29.7	122.0	3739	28.9	129.4	3602	29.6	121.6	21.2	21.2
	40	4660	39.9	116.8	4873	38.5	126.5	4637	39.8	116.6	22.1	22.1
2x2	20	2443	20.1	121.3	2548	19.5	130.7	2483	20.0	123.9	19.6	19.5
	30	3560	30.5	116.7	3778	29.4	128.5	3623	30.4	119.2	21.0	20.9
	40	4543	41.2	110.3	4899	39.4	124.4	4627	41.1	112.7	21.9	21.8
2x4	30	3657	28.9	126.5	3809	28.1	135.7	3722	28.8	129.2	18.5	18.4
	40	4700	38.5	122.1	4956	37.3	132.9	4794	38.5	124.6	19.5	19.4
	50	5699	48.6	117.2	6071	47.0	129.3	5811	48.6	119.5	20.2	20.1

- Results based on 80 CRI/4000K CCT, actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

[1] UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

PHOTOMETRY

BP-14-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3739 lumens; 28.9 Watts | Efficacy: 129.4 lm/W | 80 CRI; 4000K CCT



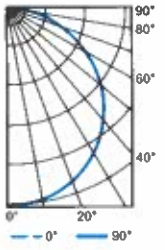
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1329	1329	1329	
5	1330	1330	1330	126
15	1280	1281	1285	360
25	1180	1186	1190	542
35	1022	1027	1034	645
45	871	880	883	675
55	667	668	673	599
65	467	467	465	457
75	242	237	238	258
85	68	65	62	77
90	4	5	4	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1028	28
0 - 40	1673	45
0 - 60	2947	79
0 - 90	3739	100
0 - 180	3739	100

BP-22-LS/8CS-DIM-UNV_30W Total Luminaire Output: 3778 lumens; 29.4 Watts | Efficacy: 128.5 lm/W | 80 CRI; 4000K CCT



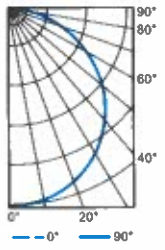
CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1330	1330	1330	
5	1331	1325	1321	126
15	1286	1279	1276	361
25	1198	1191	1189	549
35	1062	1058	1057	662
45	897	889	891	687
55	695	684	689	615
65	471	467	461	461
75	246	238	237	254
85	48	43	44	61
90	0	1	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1036	27
0 - 40	1699	45
0 - 60	3001	79
0 - 90	3778	100
0 - 180	3778	100

BP-24-LS/8CS-DIM-UNV_40W Total Luminaire Output: 4956 lumens; 37.3 Watts | Efficacy: 132.9 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1749	1749	1749	
5	1744	1741	1741	166
15	1662	1665	1670	472
25	1546	1555	1563	714
35	1338	1352	1369	851
45	1165	1182	1199	903
55	888	900	912	802
65	621	625	632	611
75	318	316	316	340
85	89	86	84	98
90	7	5	5	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1352	27
0 - 40	2202	44
0 - 60	3907	79
0 - 90	4956	100
0 - 180	4956	100

FINISH OPTIONS

SURFACE AND SKYLIGHT KITS ONLY.

WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____

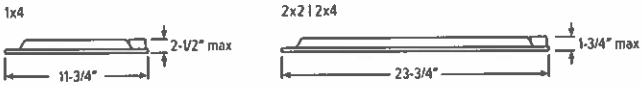


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

BP FieldSELECT™ Backlit Flat Panel

RECESSED DETAILS

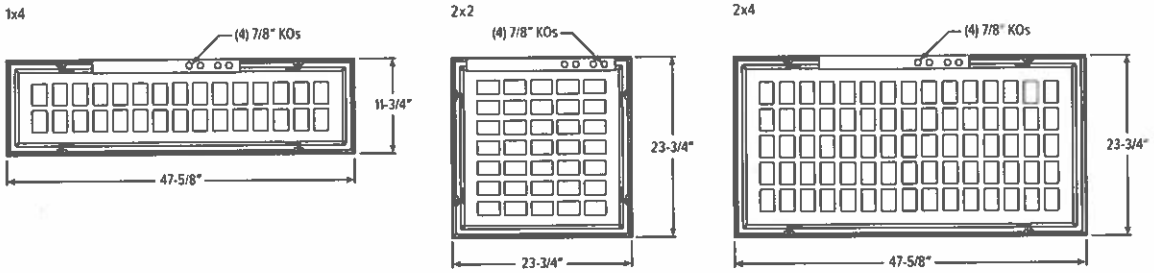
END VIEW



FIELDSELECT DETAILS



BACK VIEW



DRYWALL KIT (DFK) OPTIONS

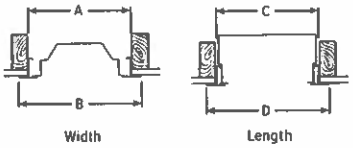
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	12 1'	48 4'	W White
	24 2'	24 2'	AMW Anti-microbial white
	24 2'	48 4'	

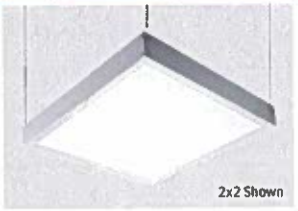
INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

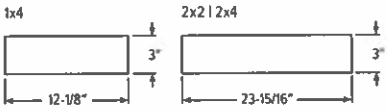
TYPICAL INSTALLATION



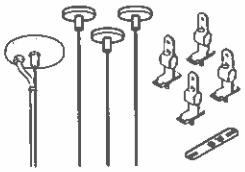
SUSPENDED MOUNT DETAILS



END VIEW

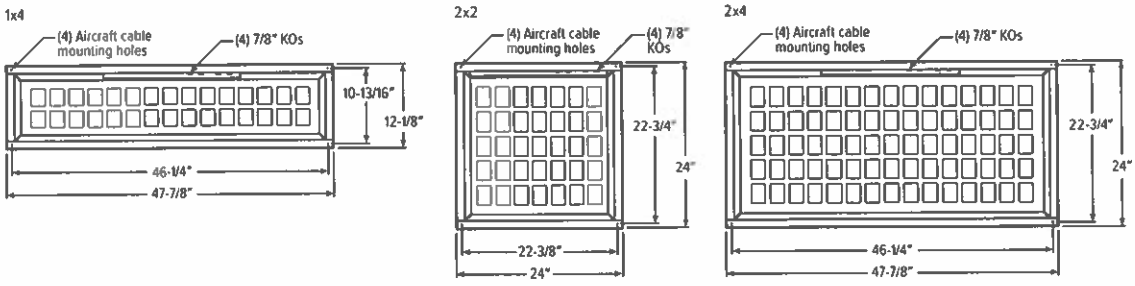


STANDARD HARDWARE (Grid & Hardpan)



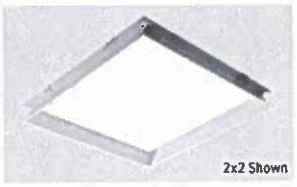
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Cord provided (field installed).
- One 5" canopy used at power feed location. Other suspension points use 2" canopy at the non-feed point.

BACK VIEW

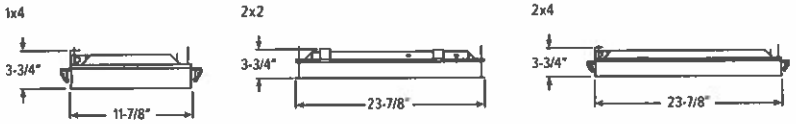


BP FieldSELECT™ Backlit Flat Panel

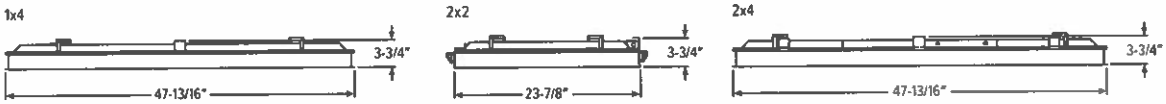
SKYLIGHT DETAILS



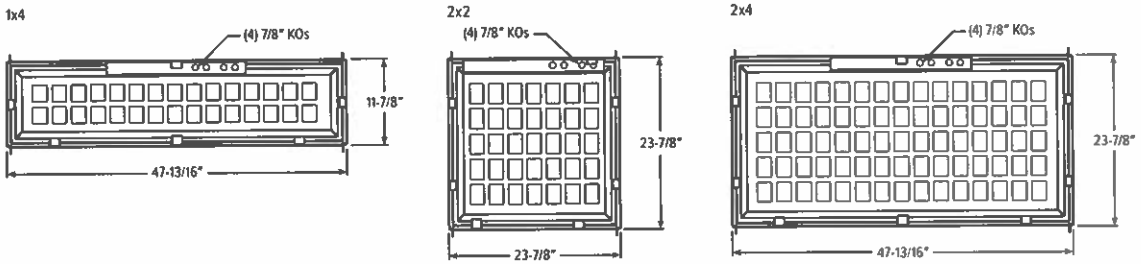
END VIEW



SIDE VIEW



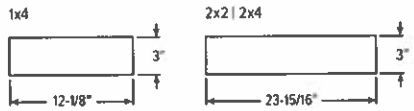
BACK VIEW



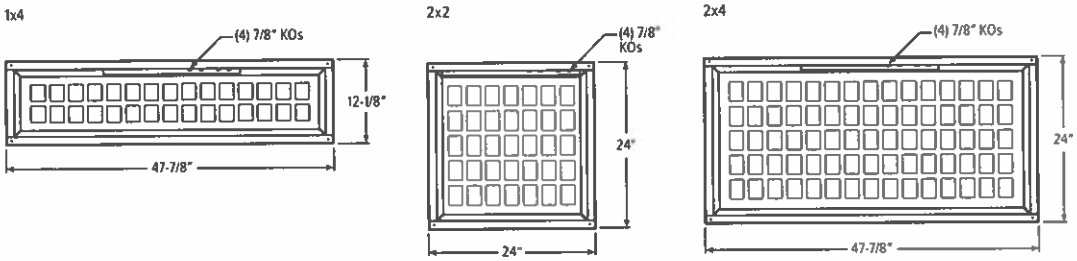
SURFACE MOUNT DETAILS



END VIEW



BACK VIEW

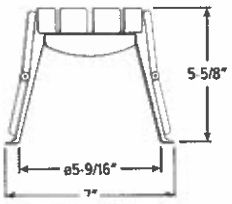


Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** 6FDR-LS/8CS-CS-DIM-UNV-6FDR-N-F1 Notes:	**Type:** C OKLAHOMA26-85679

6FDR FieldSELECT™ 6" Round Downlight

Williams





CATALOG #. _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT | Low UGR

NEW CONSTRUCTION AND REMODEL

FEATURES

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Simple and quick installation in new construction or remodel applications
- Rated for direct contact with insulation
- Durable spring clips secure fixture
- Maximize energy savings with efficacies up to 117 lm/W
- Low UGR meets LEED and WELL requirements
- Available on QuickShip at hew.com/6FDR_quickship.pdf
- Made Right Here® in the USA

SPECIFICATIONS

- HEAT SINK – Aluminum.
- TRIM – Low-iridescent anodized aluminum with 1/2" standard flange and diffuse polycarbonate lens at top of open reflector. Semi-specular finish standard.
- ELECTRICAL – High-quality mid-power LED boards. L70 >70,000 hours. 25°C max ambient operating temperature. 50/60 Hz constant current driver.
- MOUNTING – Compatible with 6". 6-3/8" ceiling cutout. Heavy-duty mounting springs accommodate ceiling thicknesses 1/2"- 2-1/2". Provided with 15" plenum-rated cable. New construction mounting pan accessory available. Access above ceiling required to change color and lumens after installation. For remodel installations, the minimum plenum height from the top of 5/8" sheetrock is 7-3/8". Weight 2.25 lbs. For retrofit installations, Williams recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.
- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations.
  - IC-rated for direct contact with insulation.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-america
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 6FDR - LS/8CS - CS - OPTIONS - DIM - UNV

SERIES	LUMENS [1]	CRI	CCT	REFLECTOR FINISH
6FDR	LS Selectable lumens 1,100/1,600/2,000	8 80	CS Selectable CCT 3,000K/3,500K/4,000K	CS Clear semi-specular anodize [2] WH White texture powder coat [3]

OPTIONS [4]

EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch
EM/10W KIT-DC-QS	10-watt emergency battery kit, dual conduit [5]

DRIVER	VOLTAGE
DIM Dim-to-off driver [6]	UNV 120-277V

MOUNTING HARDWARE ACCESSORIES (ORDERED SEPARATELY) [7]

6FDR-N-F1 New construction mounting pan with integral 2-position fixed bracket, universal bar hangers.

NOTES

1. Lumens based on CS Reflector Finish, 3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 68° beam angle.
3. 66° beam angle.
4. All EM batteries are CEC compliant.
5. Ships separately, field installed. CEC compliant.
6. Prewired for 0-10V low-voltage applications. Dimming down to 10%, dim-to-off below 0.5V
7. See page 3 for MOUNTING DETAILS.

6FDR FieldSELECT 6" Round Downlight

FIXTURE PERFORMANCE DATA

SEMI-SPECULAR REFLECTOR FINISH

WATTAGE SETTING	3000K			3500K			4000K		
	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)
Low	1020	9.4	109	1055	9.1	116	1033	9.2	112
Medium	1487	14.0	106	1569	13.4	117	1523	13.7	111
High	1888	18.5	102	2030	17.6	115	1951	18.1	108

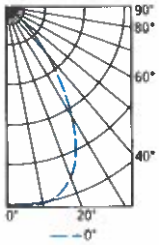
WHITE REFLECTOR FINISH

WATTAGE SETTING	3000K			3500K			4000K		
	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)
Low	846	9.4	90	875	9.1	96	857	9.2	93
Medium	1233	14	88	1303	13.4	97	1263	13.7	92
High	1565	18.5	85	1684	17.6	96	1618	18.1	89

Actual performance may vary +/-5%.

PHOTOMETRY

6FDR-LS/8CS-CS-DIM-UNV Total Luminaire Output: 2030 lumens; 17.6 Watts (High Wattage Setting) | Efficacy: 115 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1679	
5	1689	162
15	1661	466
25	1379	624
35	789	494
45	298	236
55	34	45
65	3	3
75	1	1
85	0	0
90	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1252	62
0 - 40	1745	86
0 - 60	2026	100
0 - 90	2030	100
0 - 180	2030	100

FIXTURE DETAILS

FIELDSELECT SWITCHES
Located on remote driver box.



REFLECTOR FINISH

WH



CS

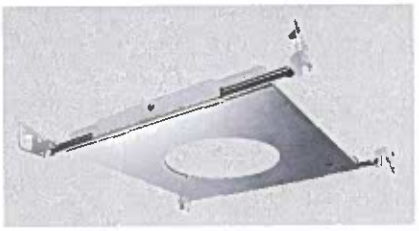


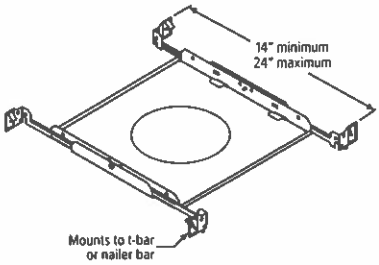
SEE NEXT PAGE FOR MOUNTING DETAILS

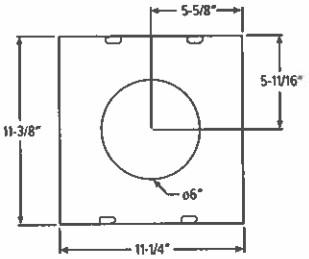
6FDR FieldSELECT 6" Round Downlight

MOUNTING DETAILS

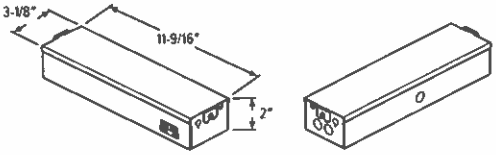
NEW CONSTRUCTION PAN ACCESSORY







DRIVER BOX



EMERGENCY BATTERY DETAILS

TEST SWITCH DETAILS

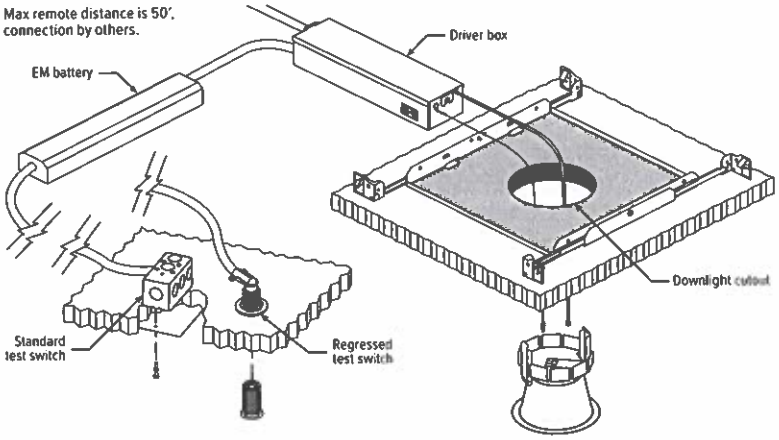


Regressed
ø1-3/4"



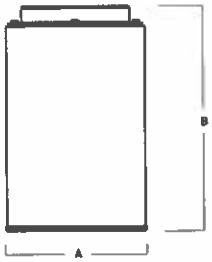
Standard
2-3/4" x 4-1/2"

MOUNTING DETAILS



Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** C0812XT30L35KXWD010X/WL/TSG/SM/MW Notes:	**Type:** C1 OKLAHOMA26-85679





SERIES	A	B
C0812XT C0816XT C0824XT	8.0 8.0 8.0	12.1 16.1 24.1

Fixture Weight: 18.5 lbs

8" ROUND DIRECT

FOCUSED ILLUMINATION

cylinders

C0812XT, C0816XT, C0824XT - CEILING MOUNT

APPLICATION

8" round x 12", 16" or 24" high 8" diameter cylinder luminaire for accent and general illumination.

FEATURES

Spectrum's Cylinder series provides traditional architectural style with high performance and energy efficient illumination. Rugged design with flexible mounting, finish and LED options make these extremely versatile fixtures. Quick change LED module with interchangeable optics for fixture upgrade.

FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. See mounting and color pages for standard finishes. All exposed materials are chromate pre-treated to resist corrosion.

ELECTRONICS

LED system features Xicato LED module with proprietary phosphor technology that provides consistent stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1 x 2-step MacAdam Ellipse binning. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

Fabricated seamless aluminum fixture housing. Silicone gasket seals optical chamber. Specular primary optical reflectors provide high efficiency illumination. Impact resistant tempered glass lenses. Stainless steel hardware with galvanized steel brackets to resist corrosion. Trim formed from .063 thick high purity aluminum and finished to specification.

CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Wet Location Option. Manufactured and tested to UL standards No. 1598/8750.

LUMENS / WATTAGE DATA

PART NUMBER	SOURCE LUMENS	DELIVERED LUMENS[2]	SYSTEM WATTS[3]	LPW
C0812XT10L	1000	760	9.1	84
C0812XT13L	1300	1024	13.0	79
C0812XT20L	2000	1575	21.7	73
C0812XT30L	3000	2363	32.6	72

SERIES	LUMENS[1]	CCT	OPTICS	DRIVER / DIMMING[6]	OPTIONS[7]	TRIM	MOUNTING[11]	FINISH[15]
C0812XT 8" x 12" Cylinder	10L 1000 Lm 13L 1300 Lm 20L 2000 Lm 30L 3000 Lm	83 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 98 CRI[4] 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K	XN[5] 12° ND 22° MD 32° WD 46° XW 57°	EX Electronic Driver, 120V/277V D010X 10%, 0-10V, 120V/277V DD10X 1%, 0-10V, 120V/277V DB2WI ELV/MLV, 120V DMDS[7,8] DMX Standard Configuration DMXC[7,9] DMX Non-Standard Custom	WL[10] Wet Location FS Fuse Holder and Fuse CR Corrosion Resistant	TSG Semi-Diffuse Low Iridescent Clear TCY Same Color as Cylinder TCC Custom Color LENS NL[12] No Lens GL Clear Glass Lens FG Frosted Glass Lens SO Micro Prism Solite™ Lens	HM[5,13] Hang Straight PM[12,13] Rigid Pendant Mount AT[12,13] Hang Straight All Thread CD[12,14] Cord / Cable Mount CD3[12,14] 3X Cord / Cable Mount SM Surface Mount CDD[12] DMX Large Driver Canopy EMERGENCY BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	MW[16] Matte White MB Matte Black PT[16] Platinum Silver CC Custom Color

C0816XT 8" x 16" Cylinder

C0824XT 8" x 24" Cylinder

EXAMPLE: C0812XT20L35KNDEX/TSGGL/HM36/MW

NOTES:
1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens at 83 CRI at Any CCT with MD-TSG-SO 3 At 83 CRI 4 20L Max 5 13L Max/XN not Available with 98 CRI Option 6 Contact Factory for Additional Options 7 Contact Factory 8 CDD Required for DMXS/C 9 See Product Options Page for Details 10 Wet Location Unavailable with NL or CD 11 See Mounting Page for Details on Components and Finishes 12 Specify Length in Inches: See Mounting Page for Available Lengths 13 Not for Use in Locations with Wind Exposure 14 EMcccx Option Requires 2 Cords 15 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 16 Standard Finishes

SPECTRUM LIGHTING INC.

PROJECT:

TYPE:

Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

WWW.SPECLIGHT.COM · 994 JEFFERSON STREET, FALL RIVER, MA 02721 · 508.678.2303 FAX 508.678.2260

83-00046_RJ

8" ROUND DIRECT

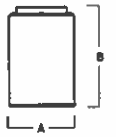
FOCUSED ILLUMINATION / FIXTURE OPTIONS

cylinders

SERIES SIZES

C0812XT

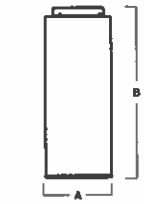




A	B
8.0 203.2 mm	12.1 307.3 mm

C0816XT

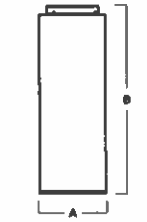




A	B
8.0 203.2 mm	16.1 408.9 mm

C0824XT





A	B
8.0 203.2 mm	24.1 612.1 mm

STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK



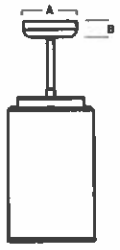
PT
PLATINUM SILVER



MOUNTING TYPES

HM / PM / AT
HANG STRAIGHT / PENDANT / ALL THREAD

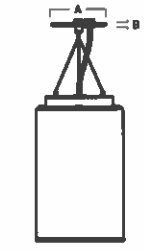




A	B
5.0 127.0 mm	1.5 38.1 mm

C03X
CORD / CABLE MOUNT





A	B
5.0 127.0 mm	.25 6.4 mm

SM
SURFACE MOUNT





SERIES	A	B
C0812XT	6.2	1.2
C0816XT	6.2	1.1

STANDARD MOUNTING & ACCESSORIES

SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES. CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.
NOTE: THIS IS TYPICAL OF CYLINDERS SPECIFICATION FOR PENDANT MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.

cylinders

MOUNTING TYPES

HM*
HANG STRAIGHT
45° SWIVEL 5/8" OD STEM - 3/8" IP



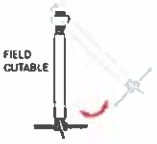
ORDER: HM (Length)
SPECIFY LENGTH:
HM3 - 3" HM24 - 24"
HM6 - 6" HM36 - 36"
HM12 - 12" HM48 - 48"
HM18 - 18" HM72 - 72"
HMLC(XX)
Custom Length
(Specify in Inches)

PM*
RIGID PENDANT MOUNT
RIGID 5/8" OD STEM - 3/8" IP



ORDER: PM (Length)
SPECIFY LENGTH:
PM3 - 3" PM24 - 24"
PM6 - 6" PM36 - 36"
PM12 - 12" PM48 - 48"
PM18 - 18" PM72 - 72"
PMLC(XX)
Custom Length
(Specify in Inches)

AT**
HANG STRAIGHT ALL THREAD
45° SWIVEL 5/8" OD STEM - 1/4" IP



ORDER: AT (Length)
SPECIFY LENGTH:
AT12 - 12"
AT24 - 24"
AT36 - 36"

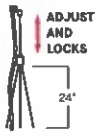


CD
CORD / CABLE MOUNT
SJ CORD WITH 1/16 SS CABLE



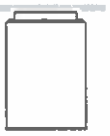
ORDER: CD (Length)
SPECIFY LENGTH:
CD36 - 36"
CD72 - 72"
CD144 - 144"
CDLC(XX)
Custom Length
(Specify in Inches)

CD3X
CORD / CABLE MOUNT
SJ CORD WITH 1/16 SS CABLE



ORDER: CDX3 (Length)
SPECIFY LENGTH:
CD3x36 - 36"
CD3x72 - 72"
CD3x144 - 144"
CDLC3X(XX)
Custom Length
(Specify in Inches)

SM
SURFACE MOUNT
WIRING COMPARTMENT / TOP HAT



ORDER: SM

TOP VIEW CANOPY

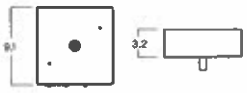


KEY SLOTS MOUNT CANOPY TO WALL JUNCTION BOX. JUNCTION BOX IS COVERED.

*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36".
LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

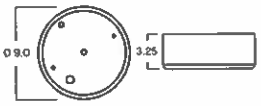
DMX OPTION

CQD - LARGE DRIVER CANOPY FOR DMX OPTIONS



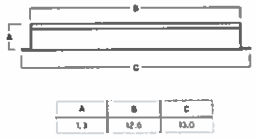
EMERGENCY BATTERY OPTIONS

EMCR - LARGE DRIVER CANOPY FOR 10W EMERGENCY BATTERY



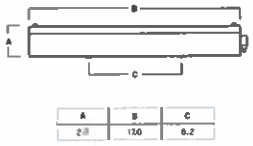
REMOTE EMERGENCY BATTERY OPTIONS

EMRM* - 7W REMOTE EMERGENCY BATTERY (50' MAX)



A	B	C
1.3	12.6	13.0

EMEN* - 7W REMOTE EMERGENCY BATTERY WITH ENCLOSURE (50' MAX)



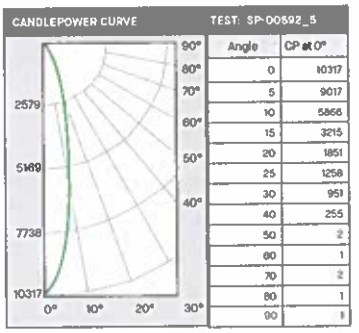
A	B	C
2.0	12.0	6.2

8" ROUND DIRECT

FOCUSED ILLUMINATION / PHOTOMETRIC DATA

cylinders

C08xxXT-30LxxK-NDEX-TSG-GL



Angle	CP at 0°
0	10317
5	9017
10	5866
15	3215
20	1851
25	1256
30	951
40	255
50	2
60	1
70	2
80	1
90	1

ZONAL LUMENS		
0-10	765	27%
0-20	1727	62%
0-30	2336	83%
0-40	2731	98%
0-60	2798	100%
0-80	2798	100%
0-90	2800	100%
Total Lumens	2800	100%

Delivered Lumens: 2800
Luminaire Watts: 32.6
LER: 86

CP @ 0° (Nadir): 10317
Beam Angle: 22.7°
CRI: 83

Spacing Ratio: 0.4
Output Multipliers: 10L x 0.32, 13L x 0.43, 20L x 0.67

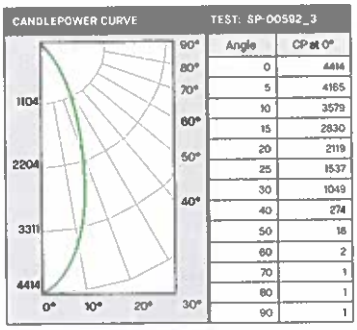
30L NARROW - 83 CRI

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	341	2.2'	164
6.5'	244	2.6'	117
7.5'	183	3.0'	88
8.5'	143	3.4'	69
10.0'	103	4.0'	50
12.0'	72	4.8'	34
14.0'	53	5.6'	25
16.0'	40	6.4'	19

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

C08xxXT-30LxxK-MDEX-TSG-SO



Angle	CP at 0°
0	4414
5	4165
10	3579
15	2830
20	2119
25	1537
30	1049
40	274
50	18
60	2
70	1
80	1
90	1

ZONAL LUMENS		
0-10	379	16%
0-20	1166	49%
0-30	1875	79%
0-40	2266	96%
0-60	2358	100%
0-80	2361	100%
0-90	2363	100%
Total Lumens	2363	100%

Delivered Lumens: 2363
Luminaire Watts: 32.6
LER: 72

CP @ 0° (Nadir): 4414
Beam Angle: 38.8°
CRI: 83

Spacing Ratio: 0.62
Output Multipliers: 10L x 0.32, 13L x 0.43, 20L x 0.67

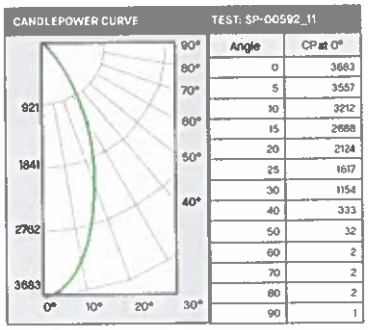
30L MEDIUM - 83 CRI

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	146	3.9'	65
6.5'	104	4.6'	46
7.5'	78	5.3'	35
8.5'	61	6.0'	27
10.0'	44	7.0'	20
12.0'	31	8.5'	14
14.0'	23	9.9'	10
16.0'	17	11.3'	8

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

C08xxXT-30LxxK-WDEX-TSG-SO



Angle	CP at 0°
0	3683
5	3557
10	3212
15	2688
20	2124
25	1617
30	1154
40	333
50	32
60	2
70	2
80	2
90	1

ZONAL LUMENS		
0-10	328	14%
0-20	1073	45%
0-30	1815	76%
0-40	2261	95%
0-60	2377	100%
0-80	2380	100%
0-90	2382	100%
Total Lumens	2382	100%

Delivered Lumens: 2382
Luminaire Watts: 32.6
LER: 73

CP @ 0° (Nadir): 3683
Beam Angle: 45.6°
CRI: 83

Spacing Ratio: 0.72
Output Multipliers: 10L x 0.32, 13L x 0.43, 20L x 0.67

30L WIDE - 83 CRI

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	122	4.6'	52
6.5'	87	5.5'	37
7.5'	65	6.3'	28
8.5'	51	7.1'	22
10.0'	37	8.4'	16
12.0'	26	10.1'	11
14.0'	19	11.8'	8
16.0'	14	13.5'	6

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

8" ROUND DIRECT

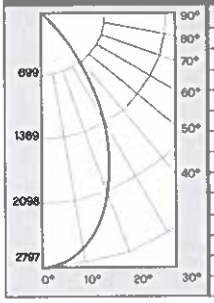
FOCUSED ILLUMINATION / PHOTOMETRIC DATA

cylinders

C08xxXT-30LxxK-XWEX-TSG-SO

30L XTRA WIDE - 83 CRI

CANDLEPOWER CURVE — TEST: SP-00592_19



Angle	CP at 0°
0	2797
5	2741
10	2601
15	2372
20	2073
25	1718
30	1282
40	397
50	55
60	3
70	1
80	1
90	1

ZONAL LUMENS

0-10	257	11%
0-20	918	38%
0-30	1707	71%
0-40	2230	93%
0-60	2398	100%
0-80	2402	100%
0-90	2403	100%
Total Lumens	2403	100%

SINGLE UNIT PERFORMANCE
(WITH FOOTCANDLES AND BEAM ANGLE DIAMETERS)

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	92	5.6'	37
6.5'	68	6.6'	26
7.5'	50	7.6'	20
8.5'	39	8.6'	15
10.0'	28	10.1'	11
12.0'	19	12.1'	8
14.0'	14	14.2'	6
16.0'	11	16.2'	4

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

Delivered Lumens: 2403
Luminaire Watts: 32.6
LER: 74

CP at 0° (Nadir): 2797
Beam Angle: 57.3°
CRI: 83

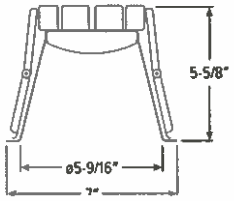
Spacing Ratio: 0.88
Output Multipliers: 10L x 0.32, 13L x 0.43, 20L x 0.67

Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** 6FDR-LS/8CS-CS-EM/10W-DIM-UNV 6FDR-N-F1 Notes:	**Type:** CE OKLAHOMA26-85679

6FDR FieldSELECT™ 6" Round Downlight

Williams





CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Simple and quick installation in new construction or remodel applications
- Rated for direct contact with insulation
- Durable spring clips secure fixture
- Maximize energy savings with efficacies up to 117 lm/W
- Low UGR meets LEED and WELL requirements
- Available on QuickShip at hew.com/6FDR_quickship.pdf
- Made Right Here® in the USA

SPECIFICATIONS

- HEAT SINK – Aluminum.
- TRIM – Low-iridescent anodized aluminum with 1/2" standard flange and diffuse polycarbonate lens at top of open reflector. Semi-specular finish standard.
- ELECTRICAL – High-quality mid-power LED boards. L70 >70,000 hours. 25°C max ambient operating temperature. 50/60 Hz constant current driver.
- MOUNTING – Compatible with 6"- 6-3/8" ceiling cutout. Heavy-duty mounting springs accommodate ceiling thicknesses 1/2"- 2-1/2". Provided with 15" plenum-rated cable. New construction mounting pan accessory available. Access above ceiling required to change color and lumens after installation. For remodel installations, the minimum plenum height from the top of 5/8" sheetrock is 7-3/8". Weight 2.25 lbs. For retrofit installations, Williams recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.
- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations.
  - IC-rated for direct contact with insulation.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 6FDR - LS/8CS - CS - OPTIONS - DIM - UNV

SERIES	LUMENS [1]	CRI	CCT	REFLECTOR FINISH
6FDR	LS Selectable lumens 1,100/1,600/2,000	8 80	CS Selectable CCT 3,000K/3,500K/4,000K	CS Clear semi-specular anodize [2] WH White texture powder coat [3]

OPTIONS [4]		DRIVER	VOLTAGE
EM/10W	10-watt emergency battery	DIM Dim-to-off driver [6]	UNV 120-277V
EM/10W/RTS	10-watt emergency battery with regressed test switch		
EM/10W KIT-DC-QS	10-watt emergency battery kit, dual conduit [5]		

MOUNTING HARDWARE ACCESSORIES (ORDERED SEPARATELY) [7]

6FDR-N-F1	New construction mounting pan with integral 2-position fixed bracket, universal bar hangers.

NOTES

1. Lumens based on CS Reflector Finish, 3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 68° beam angle.
3. 66° beam angle.
4. All EM batteries are CEC compliant.
5. Ships separately, field installed. CEC compliant.
6. Prewired for 0-10V low-voltage applications. Dimming down to 10%, dim-to-off below 0.5V
7. See page 3 for MOUNTING DETAILS.

6FDR FieldSELECT 6" Round Downlight

FIXTURE PERFORMANCE DATA

SEMI-SPECULAR REFLECTOR FINISH

WATTAGE SETTING	3000K			3500K			4000K		
	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)
Low	1020	9.4	109	1055	9.1	116	1033	9.2	112
Medium	1487	14.0	106	1569	13.4	117	1523	13.7	111
High	1888	18.5	102	2030	17.6	115	1951	18.1	108

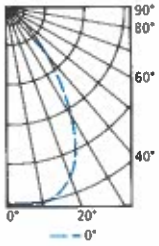
WHITE REFLECTOR FINISH

WATTAGE SETTING	3000K			3500K			4000K		
	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (LM/W)
Low	846	9.4	90	875	9.1	96	857	9.2	93
Medium	1233	14	88	1303	13.4	97	1263	13.7	92
High	1565	18.5	85	1684	17.6	96	1618	18.1	89

Actual performance may vary +/-5%.

PHOTOMETRY

6FDR-LS/8CS-CS-DIM-UNV Total Luminaire Output: 2030 lumens; 17.6 Watts (High Wattage Setting) | Efficacy: 115 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1679	
5	1689	162
15	1661	466
25	1379	624
35	789	494
45	298	236
55	34	45
65	3	3
75	1	1
85	0	0
90	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1252	62
0 - 40	1745	86
0 - 60	2026	100
0 - 90	2030	100
0 - 180	2030	100

FIXTURE DETAILS

FIELDSELECT SWITCHES
Located on remote driver box.



REFLECTOR FINISH

WH



CS

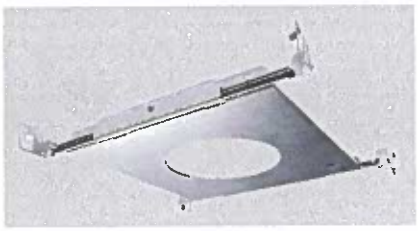


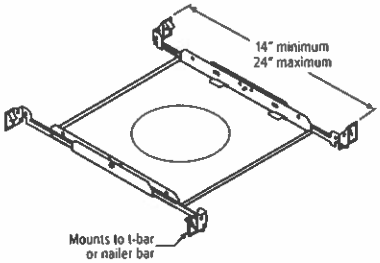
SEE NEXT PAGE FOR MOUNTING DETAILS

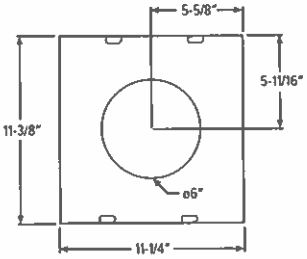
6FDR FieldSELECT 6" Round Downlight

MOUNTING DETAILS

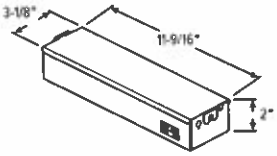
NEW CONSTRUCTION PAN ACCESSORY

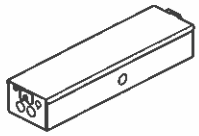






DRIVER BOX





EMERGENCY BATTERY DETAILS

TEST SWITCH DETAILS

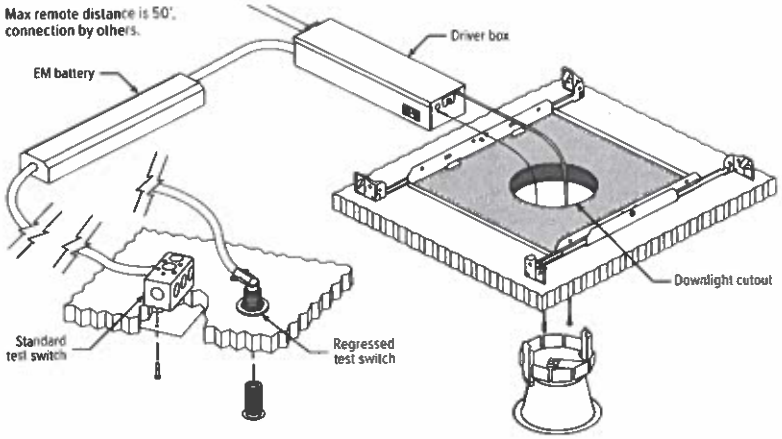


Regressed
ø1-3/4"



Standard
2-3/4" x 4-1/2"

MOUNTING DETAILS



Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** CERG Notes:	**Type:** EX OKLAHOMA26-85679

COMPASS

CE

LED EMERGENCY EXIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

tradeSELECT



FEATURES

- LED life-cycle exceeding 10 years
- Red or Green field selectable exit models
- AC or Emergency models
- Molded-in template for wall mounting, canopy included for ceiling or end mounting
- Dual-voltage 120 or 277V AC input
- Includes long-life Nickel Cadmium (NiCad) or Nickel Metal Hydride (NiMh) for UL recognized 90 minute emergency lighting
- Remote capacity or extended runtime option
- Damp Location Listed 20°C to 30°C (68°F to 86°F)

UL924 | Title 20

SPECIFICATIONS

CONSTRUCTION

- The white or black housing is made of high impact UL flame rated thermoplastic with UV protection
- Universal single or double face

INSTALLATION

- Snap together canopy, housing and covers with removable chevrons for quick and easy installation

ELECTRICAL

- The remote capacity option will run 4 CIR/COR single remote lamp-heads or 2 double CIR/COR remote
- Also available with self-test/self-diagnostics to monitor battery/charger failure, battery disconnect and lamp failure

CERTIFICATIONS

- UL924 Listed for Damp Location
- NFPA 101 and NFPA 70
- OSHA
- CEC T20 Compliant

SELF-DIAGNOSTIC FEATURES

- Fault identification for battery, charger, LED integral lamps and remotes
- Self-Testing monthly and annual for 90 minutes
- Manual Testing for 30 second, 15 minutes and 90 minutes

WARRANTY

- 2 year full unit warranty

ORDERING GUIDE

Catalog Number	Description
CARG	White Thermoplastic Exit, Universal Face, Red or Green LED AC Only Exit, Damp Listed 10° to 40°C
CARGB	Black Thermoplastic Exit, Universal Face, Red or Green LED AC Only Exit, Damp Listed 10° to 40°C
CERG	White Thermoplastic Exit, Universal Face, Red or Green LED Emergency Exit, NiCad Battery, CEC T20 Compliant, Damp Listed 10° to 40°C
CERGB	Black Thermoplastic Exit, Universal Face, Red or Green LED Emergency Exit, NiCad Battery, CEC T20 Compliant, Damp Listed 10° to 40°C
CAR	White Thermoplastic Exit, Universal Face, Red LED AC Only Exit
CAG	White Thermoplastic Exit, Universal Face, Green LED AC Only Exit
CARB	Black Thermoplastic Exit, Universal Face, Red LED AC Only Exit
CAGB	Black Thermoplastic Exit, Universal Face, Green LED AC Only Exit
CER	White Thermoplastic Exit, Universal Face, Red LED Emergency Exit, NiCad Battery, CEC T20 Compliant
CERB	Black Thermoplastic Exit, Universal Face, Red LED Emergency Exit, NiCad Battery, CEC T20 Compliant
CEG	White Thermoplastic Exit, Universal Face, Green LED Emergency Exit, NiCad Battery, CEC T20 Compliant
CEGB	Black Thermoplastic Exit, Universal Face, Green LED Emergency Exit, NiCad Battery, CEC T20 Compliant
CERRC	White Thermoplastic Exit, Universal Face, Red LED Emergency Exit, Remote Capacity, NiMh Battery, CEC T20 Compliant
CERRCB	Black Thermoplastic Exit, Universal Face, Red LED Emergency Exit, Remote Capacity, NiMh Battery, CEC T20 Compliant
CEGRC	White Thermoplastic Exit, Universal Face, Green LED Emergency Exit, Remote Capacity, NiMh Battery, CEC T20 Compliant
CERSD	White Thermoplastic Exit, Universal Face, Red LED Emergency Exit, Self-Test/Self-Diagnostics, NiCad Battery, CEC T20 Compliant
CEGSD	White Thermoplastic Exit, Universal Face, Green LED Emergency Exit, Self-Test/Self-Diagnostics, NiCad Battery, CEC T20 Compliant

Note: Remote Capacity Exit will only power Compass Indoor and Outdoor Remote (CIR and COR Series)

Accessories (Order Separately)	
WGEL Wireguard	8"H x 20"W x 8" D
CIR Series	Matching LED Indoor Remote Heads
COR Series	Matching LED Outdoor Remote Heads

Current

currentlighting.com/compass

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COMPASS

CE

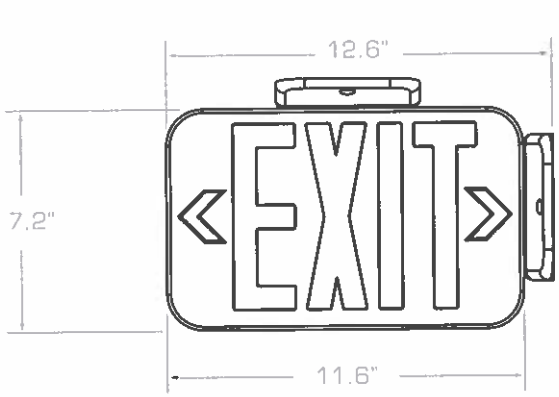
LED EMERGENCY EXIT

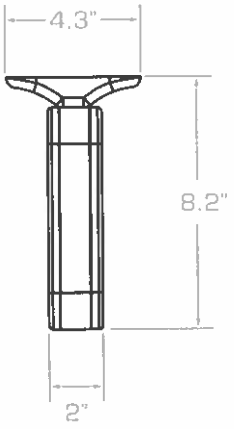
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #

DIMENSIONS





Single Carton Weight	2 lbs
Master Carton Quantity	6 each

ENERGY CONSUMPTION

	120VAC	277VAC
CARG	2.8W	2.8W
CAR	1.78W	1.88W
CAG	1.52W	1.48W
CERG	3.4W	3.5W
CER	1.78W	1.88 W
CEG	1.49W	1.57 W
CERRC	3.60W	4.14 W
CEGRC	3.28W	3.81 W

ACCESSORIES



CIRS



CIRD



CORD



CORS

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Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** WGH1-50-LSCS-UNVC Notes:	**Type:** WP OKLAHOMA26-85679

EXO OUTDOOR LIGHTING

WGH LED SERIES

SWITCHABLE · GLASS WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

tradeSELECT



FEATURES

- Three sizes: Small, Medium and Large
- 20–120 Watts
- Field switchable lumens and LED color temperature (3000K, 4000K & 5000K), 80 CRI
- Up to 162 lumens per watt
- Borosilicate glass refractor softens LED pixilation and provides uniform distribution
- Photocell standard in all sizes, which can easily be disabled.
- PIR Occupancy Sensor accessory available. 180 degree coverage. Programmable settings for time, sensitivity and distance.

c UL us LISTED · DLC LISTED PREMIUM · IP65 · SWITCHABLE WATTAGE & CCT

SPECIFICATIONS

CONSTRUCTION

- Die-cast Aluminum Frame holds and seals to housing with 2 stainless steel screws
- All sizes contain photocell, which can be disabled.
- Cast aluminum housing has three 1/2" conduit entries on top and sides
- All units have dark bronze matte textured powder coat finish (matches DBT finish)
- Operating Temp -40C to 40C

OPTICS

- High efficacies, up to 162 LPW
- Impact resistant borosilicate glass lens

INSTALLATION

- Door assembly hinges on side
- Leveling device contained inside the housing for ease of installation

ELECTRICAL

- Voltage 120-347V
- Built in 6kV surge protector
- WGH1 Switchable Wattage includes 20, 30, 40, 50
- WGH2 Switchable Wattage includes 30, 40, 50, 60, 70
- WGH3 Switchable Wattage includes 80, 90, 100, 110, 120
- 0-10V Dimmable

CERTIFICATIONS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- Wet listed
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- IP65 rated housing

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3200-17,000
Wattage Range	20–120
Efficacy Range (LPW)	140-162

ORDERING GUIDE

Housing	Catalog Number	Wattage	Voltage	Dist. Type	Delivered Lumens	LPW	CCT	Weight lbs. (kg)
Small	WGH1-50-LSCS-UNVC	20-50W	120-347V	4	3200-7520	143-159	3000K, 4000K, 5000K	8.4 (3.8)
Medium	WGH2-70-LSCS-UNVC	30-70W	120-347V	4	4800-10,700	146-162	3000K, 4000K, 5000K	10.8 (4.9)
Large	WGH3-120-LSCS-UNVC	80-120W	120-347V	4	11,400-17,000	140-154	3000K, 4000K, 5000K	13.9 (6.3)

ACCESSORIES

Catalog Number	Description
MS-BLT	PIR Occupancy Sensor, 180 degree, Threaded Mount

Current

currentlighting.com/exo

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EXO OUTDOOR LIGHTING

WGH LED SERIES

SWITCHABLE · GLASS WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA

Description	System Watts	Distribution Type	5K (5000K NOMINAL)					4K (4000K NOMINAL)					3K (3000K NOMINAL)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
WGH1	20	4	3218	159	1	3	2	3457	171	1	3	3	2976	147	1	3	2
	30	4	4768	157	1	3	3	5123	169	1	3	3	4411	146	1	3	3
	40	4	6228	155	2	3	3	6691	166	2	3	3	5760	143	2	3	3
	50	4	7522	150	2	3	4	8081	161	2	3	4	6958	139	2	3	3
WGH2	30	4	5025	162	1	3	4	5399	174	1	3	4	4648	150	1	3	3
	40	4	6417	161	1	3	4	6894	173	1	3	4	5936	149	1	3	4
	50	4	7840	159	1	4	5	8424	171	1	4	5	7252	147	1	4	5
	60	4	9433	156	1	4	5	10135	168	1	4	5	8725	145	1	4	5
	70	4	10700	154	1	4	5	11496	165	1	4	5	9897	142	1	4	5
WGH3	80	4	12015	154	2	4	5	12909	165	2	4	5	11114	142	2	4	5
	90	4	13607	152	2	4	5	14619	163	3	5	5	12587	140	2	4	5
	100	4	15328	149	3	5	5	16468	160	3	5	5	14178	138	3	4	5
	110	4	16436	148	3	5	5	17659	159	3	5	5	15204	137	3	5	5
	120	4	17116	147	3	5	5	18390	158	3	5	5	15833	136	3	5	5

ELECTRICAL DATA

WGH1-Small

Nominal Wattage	Input Voltage	Oper.Current (Amps)	System Power (Watts)
20	120	017	20 3
	208	010	
	240	008	
	277	007	
	347	006	
30	120	025	30 0
	208	014	
	240	013	
	277	011	
	347	009	
40	120	033	39 2
	208	019	
	240	016	
	277	014	
	347	011	
50	120	042	49 8
	208	024	
	240	021	
	277	018	
	347	014	

WGH2-Medium

Nominal Wattage	Input Voltage	Oper.Current (Amps)	System Power (Watts)
30	120	024	29 3
	208	014	
	240	012	
	277	011	
	347	008	
40	120	034	41 2
	208	020	
	240	017	
	277	015	
	347	012	
50	120	044	53 1
	208	026	
	240	022	
	277	019	
	347	015	
60	120	049	59 2
	208	028	
	240	025	
	277	021	
	347	017	
70	120	056	66 8w
	208	032	
	240	028	
	277	024	
	347	019	

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EXO OUTDOOR LIGHTING

WGH LED SERIES

SWITCHABLE - GLASS WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ELECTRICAL DATA (CONTINUED)

WGH3-Large

Nominal Wattage	Input Voltage	Oper.Current (Amps)	System Power (Watts)
80	120	0.66	79.6
	208	0.38	
	240	0.33	
	277	0.29	
	347	0.23	
90	120	0.74	88.2
	208	0.42	
	240	0.37	
	277	0.32	
	347	0.25	
100	120	0.84	100.2
	208	0.48	
	240	0.42	
	277	0.36	
	347	0.29	
110	120	0.91	109.2
	208	0.53	
	240	0.46	
	277	0.39	
	347	0.31	
120	120	0.99	118.9
	208	0.57	
	240	0.50	
	277	0.43	
	347	0.34	

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.98
50° C	122° F	0.97

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	36,000	50,000	TM-21-11 60,000	100,000
40°C / 104°F	1.00	0.95	0.93	0.90	0.88	0.81

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EXO OUTDOOR LIGHTING

DATE: LOCATION:

TYPE PROJECT:

CATALOG #:

WGH LED SERIES

SWITCHABLE - GLASS WALLPACK

PHOTOMETRY

SWITCHABLE WATTAGE & CCT

WGH1

WGH1 - 20W



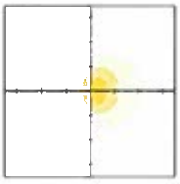
Mounting Height: 10 ft
Scale: 25 ft

WGH1 - 30W



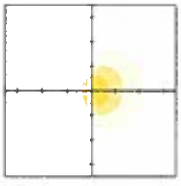
Mounting Height: 10 ft
Scale: 25 ft

WGH1 - 40W



Mounting Height: 10 ft
Scale: 25 ft

WGH1 - 50W



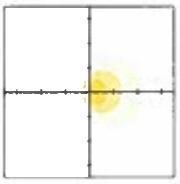
Mounting Height: 10 ft
Scale: 25 ft



Switchable from **20 to 50 watts**

WGH2

WGH2 - 30W



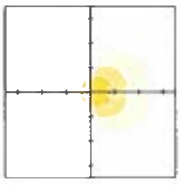
Mounting Height: 10 ft
Scale: 25 ft

WGH2 - 40W



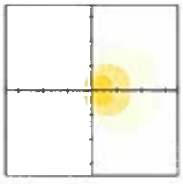
Mounting Height: 10 ft
Scale: 25 ft

WGH2 - 50W



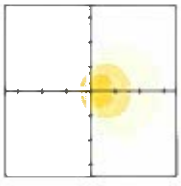
Mounting Height: 10 ft
Scale: 25 ft

WGH2 - 60W

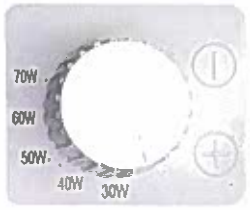


Mounting Height: 10 ft
Scale: 25 ft

WGH2 - 70W



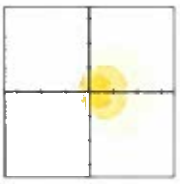
Mounting Height: 10 ft
Scale: 25 ft



Switchable from **30 to 70 watts**

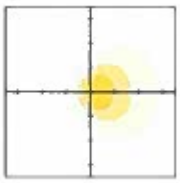
WGH3

WGH3 - 80W



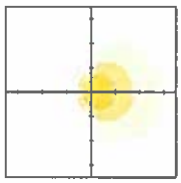
Mounting Height: 10 ft
Scale: 25 ft

WGH3 - 90W



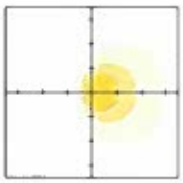
Mounting Height: 10 ft
Scale: 25 ft

WGH3 - 100W



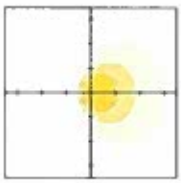
Mounting Height: 10 ft
Scale: 25 ft

WGH3 - 110W



Mounting Height: 10 ft
Scale: 25 ft

WGH3 - 120W



Mounting Height: 10 ft
Scale: 25 ft



Switchable from **80 to 120 watts**

WGH1, WGH2 & WGH3 CCT Switchable **3K, 4K, 5K**



ACCESSORY

MS-DBT



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EXO OUTDOOR LIGHTING

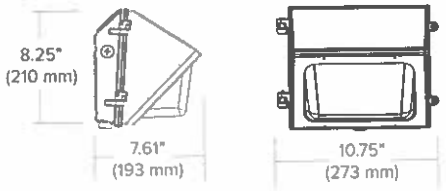
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TYPE PROJECT:
CATALOG #:

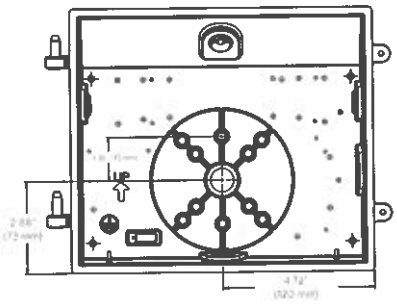
WGH LED SERIES

SWITCHABLE - GLASS WALLPACK

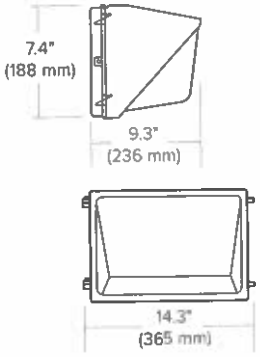
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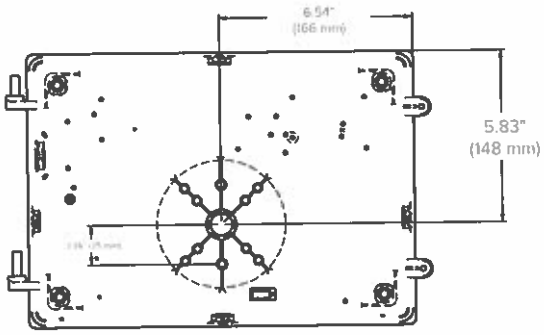
WGH1



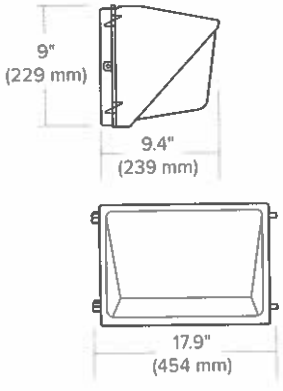


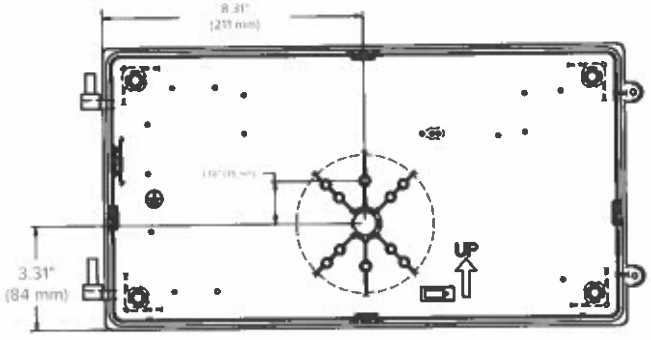
WGH2





WGH3





LEVEL SYSTEM



Incorporated level system in fixture

USE OF TRADEMARKS AND TRADE NAMES

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Submitted by Bell & McCoy Lighting and Controls	Catalog Number:	Type:
BELL & McCOY LIGHTING AND CONTROLS **Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	PGXX Notes:	**WP1** OKLAHOMA26-85679

DUAL-LITE®

PG Series

ARCHITECTURAL EMERGENCY UNIT

DATE: LOCATION:

TYPE: PROJECT:

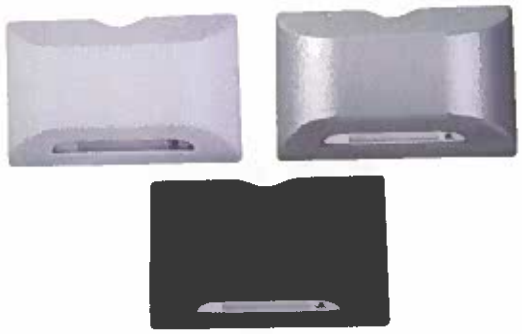
CATALOG #:

FEATURES

- No heads to aim, no adjustments to make
- Includes Spectron® self-testing/self-diagnostic electronics standard
- Sturdy die-cast aluminum construction
- Time delay retransfer circuit
- Brownout detection circuit
- Low Voltage Battery Disconnect
- Universal 120/277 VAC operation
- 90 minute emergency operation
- Microprocessor controlled battery environmental chamber
- Fast, easy installation

UL924 NFPA 70 NFPA 101 SPECTRON

PG Series



SERVICE PROGRAMS

STOCK

SPECIFICATIONS

APPLICATION

- PG is an indoor/outdoor, die-cast architectural emergency unit
- Wet location listed, emergency luminaire with high-output LED technology that provides path of egress illumination for mounting over entrance/exit ways and perimeter walkways
- Spectron® self-testing/self-diagnostic electronics are included standard
- A battery heater for cold temperature operation is available as an option

CONSTRUCTION

- Housing and mounting plate are constructed of 1/8" die-cast aluminum
- Mounting plate also includes a 1/8" closed-cell, medium density, neoprene gasket for watertight seal
- Acrylic lens allows 92% light transmission. The reflector is electro-polished aluminum with 95% reflectance
- Housing finish is powder coated electro-deposition paint available in four colors: dark bronze, white, platinum silver and black

INSTALLATION

- Universal housing knockouts for mounting to standard 3-1/2" and 4" octagon and 4" square electrical boxes
- A 1/2" – 1/4 NPT threaded conduit opening is provided at the top of the housing and sealed with a closure plug
- Back plate mounts to the wall surface using installer supplied hardware
- Housing "snaps" to the back plate by a "pin and socket" arrangement, and is secured with two #8-32 screws
- AC Lockout feature prevents battery discharge prior to initial unit power-up, saving installation time

COMPLIANCES

- UL 924 Listed
- UL Wet Location Listed
- NFPA 101 Life Safety Code
- NFPA 70 National Electrical Code
- OSHA
- U.S. Patent No. D627,916

WARRANTY

- LED Lifetime Warranty
- Fixture: 5 Years Full
- Battery: 2 Years Full, 8 Years Pro Rata

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DUAL-LITE®

PG Series

ARCHITECTURAL EMERGENCY UNIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: PGW

CATALOG # _____

PG		–	
Model	Finish		Options
PG Architectural Emergency Unit	W White Z Dark Bronze P Platinum Silver B Black		HTR Battery Heater

ELECTRONICS

Upon failure of normal utility power, a solid-state transfer switch automatically activates the emergency function. Upon resumption of normal utility power, the battery is disconnected from the load and recharged through a solid-state charging unit. A low voltage battery disconnect feature protects the battery from severe damage during prolonged power failures. Spectron® self-testing/self-diagnostic circuitry provides automatic system testing on a monthly and semi-annual basis. Manual testing is available at any time using the push-to-test button: push once for a 60-second system test; push twice for a 90-minute system test.

Number of Lamps: Four high output LEDs

Lamp Configuration: Two sets of 2 LEDs provide illumination. In the unlikely event that any single LED should fail, the remaining LEDs will continue to function.

Lamp Type: Solid state high output LEDs

Lamp Color: Cool White, 6350K

Total Lamp Output: 405 Lumens

Input: 120/277VAC, 60 Hz

Battery Charger: Temperature compensating, constant current

Transfer: Solid state

Functional Circuitry: AC lockout, transformer isolation, transient surge protection, low voltage battery disconnect, brownout detection, time delay retransfer

Battery Recharge Cycle: per UL time standards

Test Means: Integral test switch

Battery: Sealed, maintenance-free Nickel-Cadmium

Operating Temperature Range for Models without Heater:
0°C to 50°C (32°F to 122°F)

Operating Temperature Range for Models with Heater:
-30°C to 50°C (-22°F to 122°F)

Weight: 6.13 lbs (2.78 kg)
6.42 lbs (2.91 kg) (with -HTR option)

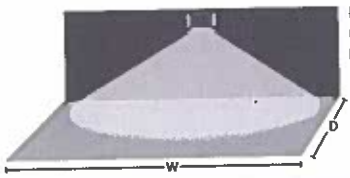
POWER CONSUMPTION

	Models without Heater		Models with Heater	
PG	120VAC	2.78 Watts	120VAC	15.2 Watts
	277VAC	2.88 Watts	277VAC	15.7 Watts

Power factor average: 0.8 (lagging)

ILLUMINATION PATTERN

SINGLE UNIT COVERAGE



Mounting Height: 9'
Outdoor Reflectance: 0/30/10
Indoor Reflectance: 80/50/20

	Indoor	Outdoor
1 FC Average (W x D)	33' X 10'	27' X 10'
1 FC Minimum (W x D)	10' X 10'	9' X 10'

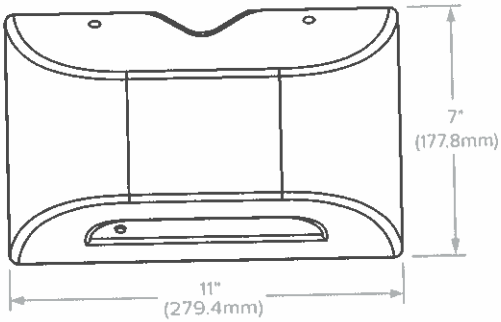
MULTIPLE UNIT SPACING



Mounting Height: 9'
Illuminated Path Depth: 6'
Outdoor Reflectance: 30/10
Indoor Reflectance: 80/50/20

	Indoor	Outdoor
1 FC Average	44'	33'
1 FC Minimum	16'	15'

DIMENSIONS





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Submitted by Bell & McCoy Lighting and Controls			
BELL & McCOY LIGHTING AND CONTROLS	**Job Name:** CHEROKEE NATION SALLY BULL COMMUNITY CENTER Architect: BLUE RIVER (TULSA) Engineer: PRECISION ENGINEERING GROUP	**Catalog Number:** PGXX Notes:	**Type:** WPE OKLAHOMA26-85679

DUAL LITE®

PG Series

ARCHITECTURAL EMERGENCY UNIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #

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UL924 NFPA 70 NFPA 101 SPECTRON

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DUAL-LITE®

PG Series

ARCHITECTURAL EMERGENCY UNIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: PGW

CATALOG # _____

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Model	Finish		Options
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Outdoor Reflectance: 0/30/10
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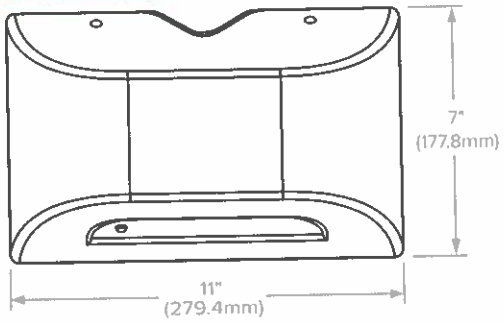
MULTIPLE UNIT SPACING



Mounting Height: 9'
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Outdoor Reflectance: 30/10
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	Indoor	Outdoor
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DIMENSIONS





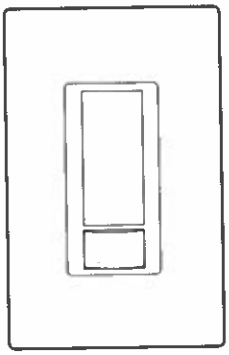
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Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Maestro sensor switch

The Lutron Maestro occupancy sensor switch combines a Maestro switch with a passive infrared occupancy or vacancy sensor. The sensor detects the heat from occupants moving within an area to determine whether the space is occupied. Based on the feedback from the sensor, the occupancy sensor switch will adjust the load accordingly.



MS-OPS2
MS-OPS2H-XX-C
MS-OPS5M
MS-OPS5MH-XX-C
MS-OPS6M2-DV
UMS-OPS6M2-DV
MS-VPS2
MS-VPS5M
MS-VPS6M2-DV
UMS-VPS6M2-DV

Features

- Passive infrared sensors with exclusive Lutron XCT Technology for fine motion detection
- 180° sensor field-of-view
- Up to 30 ft x 30 ft (9 m x 9 m) [900 ft^2 (81 m^2)] major motion coverage and 20 ft x 20 ft (6 m x 6 m) [400 ft^2 (36 m^2)] minor motion coverage
- Occupancy version can be set to Auto-ON/Auto-OFF or Manual-ON/Auto-OFF
- Vacancy version available to meet CA Title 24 requirements
- Adjustable timeout (1, 5, 15, or 30 minutes) and high/low sensitivity adjustment
- Load types: incandescent, halogen, ELV, MLV, CFL, LED, magnetic fluorescent, electronic fluorescent, and fan.

Note: "XX" in model number represents color/finish code.

Models available

MS-OPS2-XX[1]
MS-OPS2H-XX-C[2]
MS-OPS5M-XX[3]
MS-OPS5MH-XX-C[2]
MS-OPS6M2-DV-XX
UMS-OPS6M2-DV-XX[4]
MS-VPS2-XX[1]
MS-VPS5M-XX[3]
MS-VPS6M2-DV-XX
UMS-VPS6M2-DV-XX[4]

[1] For clamshell packaging, add an "H" after the "2". Available in AL, IV, LA, and WH.
[2] Clamshell packaged product for Canada. Available in AL, IV, LA, and WH.
[3] For clamshell packaging, add an "H" after the "M". Available in AL, IV, LA, and WH.
[4] BAA-compliant model. For other BAA/TAA compliant products, please visit our website at www.lutron.com/BAA and select "download BAA product list".

LUTRON SPECIFICATION SUBMITTAL

Page

Job Name:	Model Numbers:
Job Number:	

Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Specifications

Regulatory Approvals

- UL® Listed to U.S. and Canadian safety requirements.
- NOM Certification (MS- models only).

Power

- 120 V~ 50/60 Hz*
- 120–277 V~ 50/60 Hz*

Key Design Features

- All lighting loads
- Crush/tamper resistant lens
- Smart ambient light detection
- Adaptive switching algorithm for extended relay life
- XCT Technology for fine motion detection
- Lutron patented Softswitch

Environment

- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%–90% humidity, non-condensing. Indoor use only.

Warranty

- 5-Year Limited Warranty. For additional Warranty information, please visit www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf

Additional Information

- When using MS-OPS2, MS-OPS5M, MS-OPS6M2-DV, MS-VPS2, MS-VPS5M, or MS-VPS6M2-DV on GFI-controlled circuits, please see Lutron P/N 048440 on www.lutron.com
- For Maestro Occupancy sensing dimmer models, please see Lutron P/N 369270 on www.lutron.com
- For use with MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 to control the load from more than two locations, please see Lutron P/N 048435 on www.lutron.com
- For more information, please see www.lutron.com/occvacsensors
- Lutron Customer Assistance: 1.844.LUTRON1

Advanced Features

Switching

- Standard zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve
- Adaptive zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve. Actively adapts to variations in relay timing
- Lutron Patented Softswitch circuit—eliminates arcing at mechanical contacts when loads are switched. Extends relay life to an average of 1,000,000 cycles (on/off) for resistive, capacitive, or inductive sources

XCT Technology

Advanced sensing technology for fine motion detection ensures that the lights stay on while the room is occupied, and that the sensor does not turn on falsely when there is no occupancy in the room. For more information, see www.lutron.com/TechnicalDocumentLibrary/white%20paper%20XCT%204-23-09%20B.pdf

* Maximum current ratings for individual models are provided in the **Selection Matrix** on page 4.

Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Custom Settings

Ambient Light Detection

Lights turn on only if natural light in room is low.

- Smart—Ambient light threshold adjusts precisely to the user's preference.

  Instructions: If switch turns on when there is enough natural light, or if switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will "teach" the switch your preferred setting.

Sensor Operation

- Occupancy/Vacancy: Auto-ON / Auto-OFF or Manual-ON / Auto-OFF
- Vacancy only: Manual-ON / Auto-OFF only

Timeout Options

(See **Additional Features** on page 5 for default settings)

- 1 Minute
- 5 Minutes
- 15 Minutes
- 30 Minutes

Sensitivity Options

- High sensitivity (default)
- Low sensitivity

Auto-ON Options

(MS-OPS and UMS-OPS only)

- Occupancy (default): Auto-ON/Auto-OFF
- Vacancy*: Manual-ON/Auto-OFF
- Low Light: Lights turn on only if needed (if ambient light is below threshold)

* There is a 15-second grace period that begins when the lights are automatically turned off, during which the lights will automatically turn back on in response to motion. This grace period is provided as a safety and convenience feature in the event that the lights turn off while the room is still occupied, so that the user does not need to manually turn the lights back on. After 15 seconds, the grace period expires and the lights must be manually turned on.

Manual Off-While-Occupied Options

(MS-OPS and UMS-OPS only – see **Additional Features** on page 5 for default setting)

- Enabled
  - When the occupancy sensor switch is manually turned off, the occupancy sensor switch will not turn the lights back on automatically while the room is occupied.
  - Once the room is vacated, the Auto-ON feature returns to normal operation after the timeout period has expired.
  - This may be the preference in conference rooms or classrooms while viewing presentations. This feature requires motion to keep the lights off.
- Disabled
  - When the occupancy sensor switch is manually turned off, the Auto-ON feature will return to normal operation after 25 seconds.
  - This may be the preference if the user always wants the lights to turn on upon entering and the lights to turn off when the room is vacant.

Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Selection Matrix

Model Number[1]	Vacancy only[2] (Title 24 compliant)	Single-pole only	Works with standard mechanical 3-way switch[3]	Works with companion switch[3, 4]	Single-pole / 3-way capability	All lighting loads (120 V~ only)	All lighting loads (120–277 V~ only)	Fan (120 V~)	Light + Fan (120 V~)	Max current rating	Neutral wire optional*	Minimum load required	Off-state power	Relevant wiring diagram
MS-OPS2-XX		✓			2 A[6]				✓					1
MS-OPS2H-XX-C		✓			2 A[6]				✓					1
MS-OPS5M-XX			✓	✓	5 A		3 A	3 A	✓					2, 3, 5
MS-OPS5MH-XX-C			✓	✓	5 A		3 A	3 A	✓					2, 3, 5
MS-OPS6M2-DV-XX			✓	✓		6 A	3 A	3 A	✓					2–6
UMS-OPS6M2-DV-XX[5]			✓	✓		6 A	3 A	3 A	✓					2–6
MS-VPS2-XX	✓	✓			2 A[6]				✓					1
MS-VPS5M-XX	✓		✓	✓	5 A		3 A	3 A	✓					2, 3, 5
MS-VPS6M2-DV-XX	✓		✓	✓		6 A	3 A	3 A	✓					2–6
UMS-VPS6M2-DV-XX[5]	✓		✓	✓		6 A	3 A	3 A	✓					2–6

1 XX in model number represents color/finish code.

2 Occupancy sensors can be configured as Auto-ON/Auto-OFF or Manual-ON/Auto-OFF. Vacancy sensors are configured as Manual-ON/Auto-OFF only.

3 Standard mechanical 3-way switch cannot be combined with companion switch.

4 Companion switch MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 is required for multi-location installations (more than two locations controlling the same lighting circuit). Up to nine companion switches may be connected.

5 BAA-compliant model. For other BAA/TAA compliant products, please visit our website at www.lutron.com/BAA and select "download BAA product list".

6 150 W LED, 200 W MLV, 250 W Incandescent/Halogen/ELV, 2 A Ballast.

* **Note:** Neutral is optional only for retrofit or replacement applications when ground connection is available. Connect green-sleeve wire to ground when a neutral connection is not available. When a neutral connection is available, remove the green sleeve and connect the white wire to neutral. Please note that a ground or neutral wire is required for product to function. If neither wire is present, consult a licensed electrician.

Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Additional Features

Model Number[1]	Crush/tamper-resistant lens	Ambient light detection	Switching	XCT technology	Manual off-while-occupied default setting	Default timeout (minutes)
MS-OPS2-XX	✓	Smart	Adaptive	✓	Disabled	5
MS-OPS2H-XX-C	✓	Smart	Adaptive	✓	Disabled	5
MS-OPS5M-XX	✓	Smart	Adaptive	✓	Disabled	5
MS-OPS5MH-XX-C	✓	Smart	Adaptive	✓	Disabled	5
MS-OPS6M2-DV-XX	✓	Smart	Adaptive	✓	Enabled	15
UMS-OPS6M2-DV-XX	✓	Smart	Adaptive	✓	Enabled	15
MS-VPS2-XX	✓	Smart	Adaptive	✓		5
MS-VPS5M-XX	✓	Smart	Adaptive	✓		5
MS-VPS6M2-DV-XX	✓	Smart	Adaptive	✓		15
UMS-VPS6M2-DV-XX	✓	Smart	Adaptive	✓		15

[1] XX in model number represents color/finish code.

Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Placement and Operation

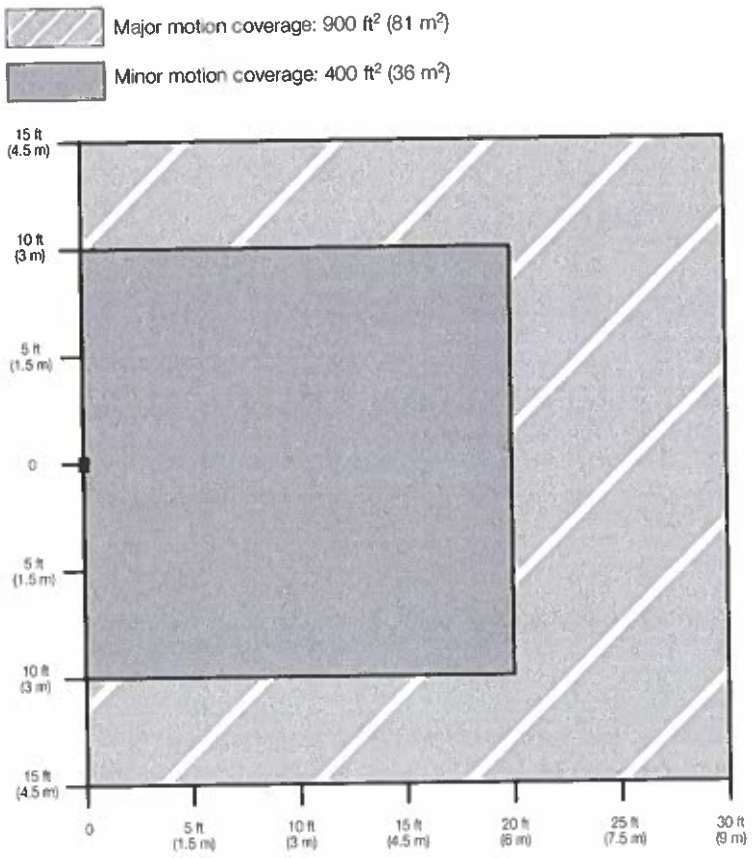
- The ability of the occupancy sensor switch to detect motion requires line-of-sight of room occupants. The occupancy sensor switch must have an unobstructed view of the room.
- Hot objects and moving air currents can affect the performance of the occupancy sensor switch.
- The performance of the occupancy sensor switch depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the ability of the occupancy sensor switch to detect occupants.

Definitions

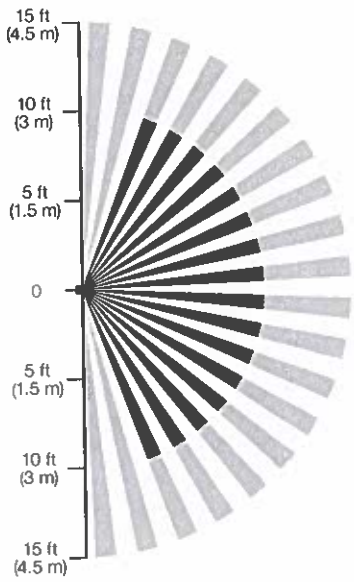
Major motion: movement of a person entering or passing through an area.

Minor motion: movement of a person occupying an area and engaging in small activities (e.g., reaching for a telephone, turning the pages of a book, opening a file folder, picking up a coffee cup).

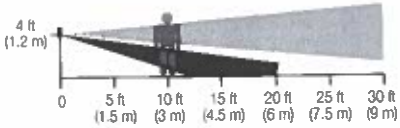
NEMA WD7 Coverage



Horizontal Beam Diagram



Vertical Beam Diagram



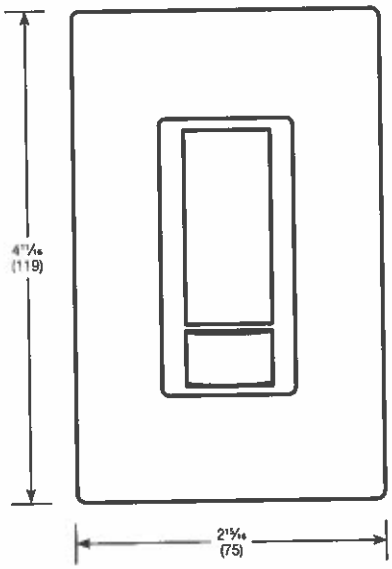
Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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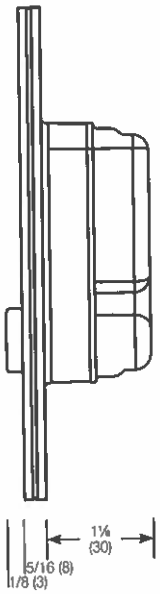
Dimensions

Measurements shown as: in (mm).

Front View



Side View

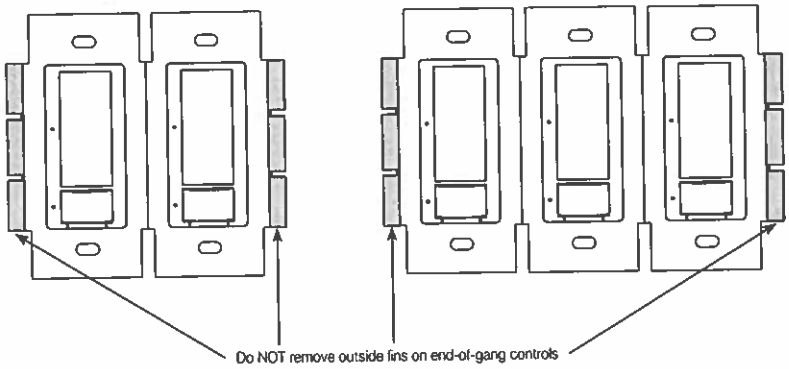


Ganging

When ganging with other controls in the same wallbox, remove inside fins (UMS-OPS6M-DV and UMS-VPS6M-DV only).

Each control has inside fins removed

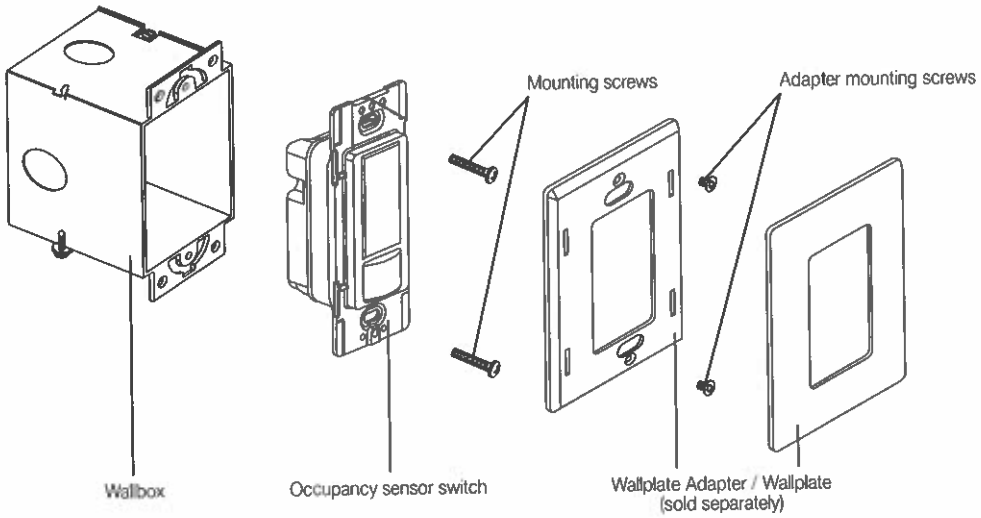
Middle of Gang control has all fins removed



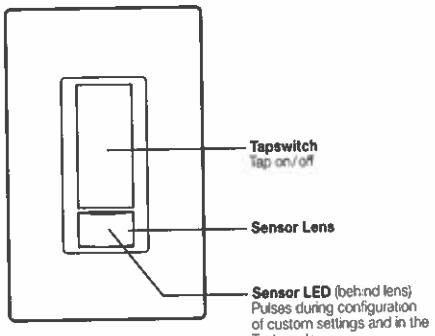
Maestro — Switch with Occupancy/Vacancy Sensor — Sensor

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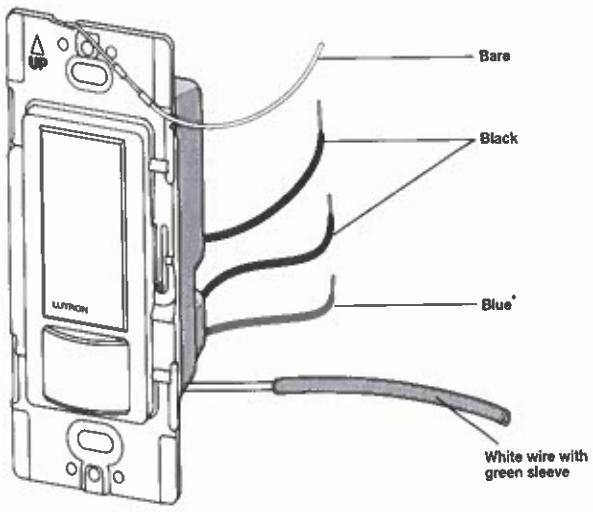
Mounting



Operation



MS-OPS2
MS-OPS5M
MS-OPS6M2-DV
UMS-OPS6M2-DV
MS-VPS2
MS-VPS5M
MS-VPS6M2-DV
UMS-VPS6M2-DV



***Note:** Blue wire not on models: MS-OPS2, MS- VPS2.

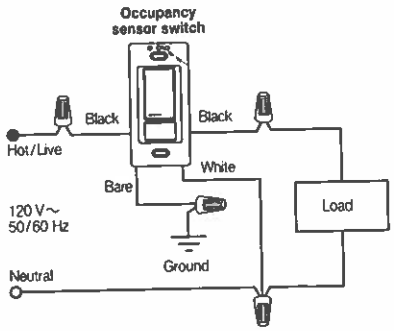
Maestro | Switch with Occupancy/Vacancy Sensor | Sensor

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Wiring Diagrams

Wiring Diagram 1- with Neutral

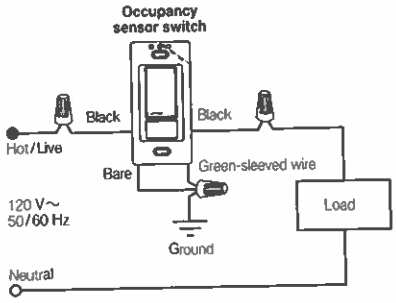
Single Location Installation (120 V~)
-OPS2 and -VPS2



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

Wiring Diagram 1- without Neutral

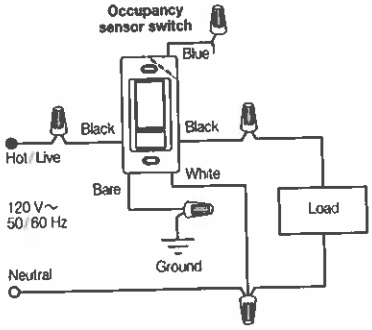
Single Location Installation (120 V~)
-OPS2 and -VPS2



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

Wiring Diagram 2 - with Neutral

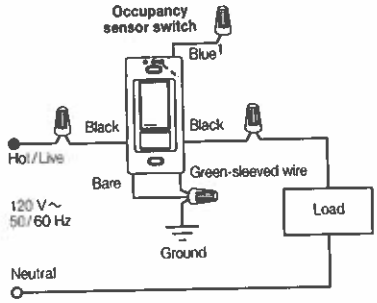
Single Location Installation (120 V~)[1]
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

Wiring Diagram 2 - without Neutral

Single Location Installation (120 V~)[1]
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

1 When using controls in single location installations, tighten the blue terminal or cap blue wire. Do not connect the blue terminal/wire to any other wire or to ground.
2 Only one occupancy sensor switch can be used per multi-location circuit.
3 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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LUTRON SPECIFICATION SUBMITTAL

Page

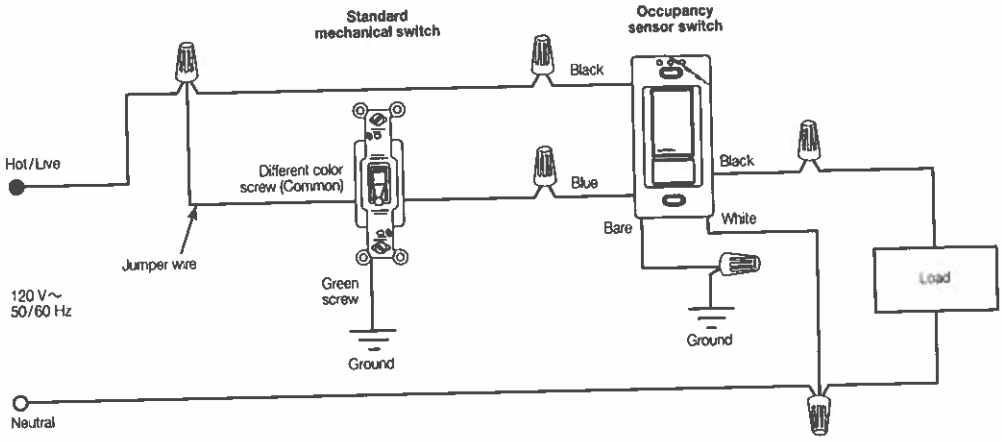
Job Name:	Model Numbers:
Job Number:	

Wiring Diagrams *(continued)*

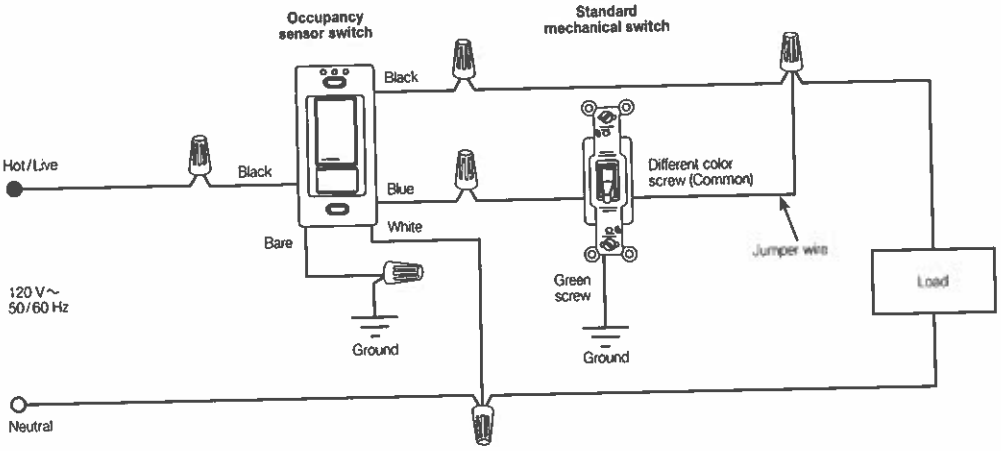
Wiring Diagram 3 - with Neutral

3-way Installation with Standard Mechanical Switch (120 V~)[2, 3]

-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV



OR



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

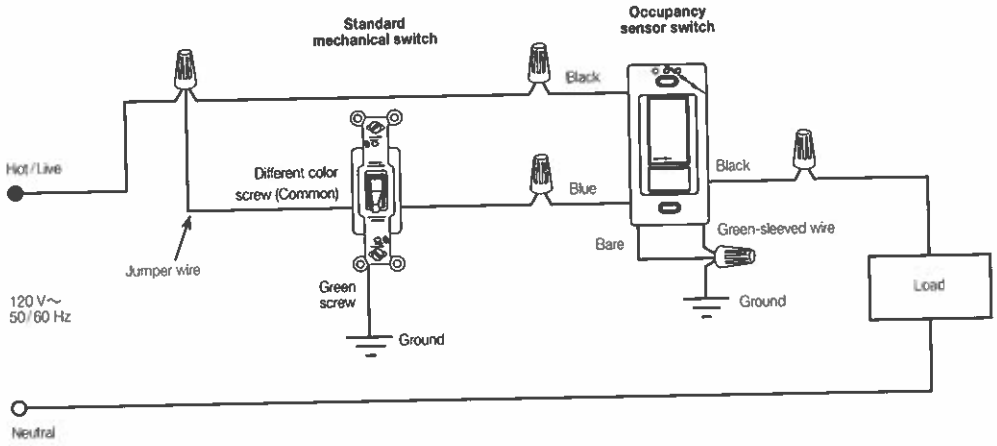
1 When using controls in single location installations, tighten the blue terminal or cap blue wire. Do not connect the blue terminal/wire to any other wire or to ground.
2 Only one occupancy sensor switch can be used per multi-location circuit.
3 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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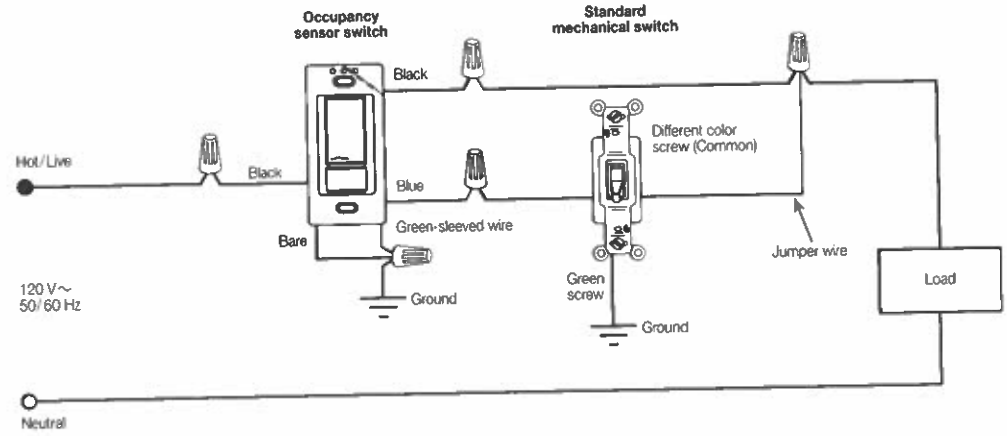
Wiring Diagrams *(continued)*

Wiring Diagram 3 - without Neutral

3-way Installation with Standard Mechanical Switch (120 V~)[2, 3]
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV



OR



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

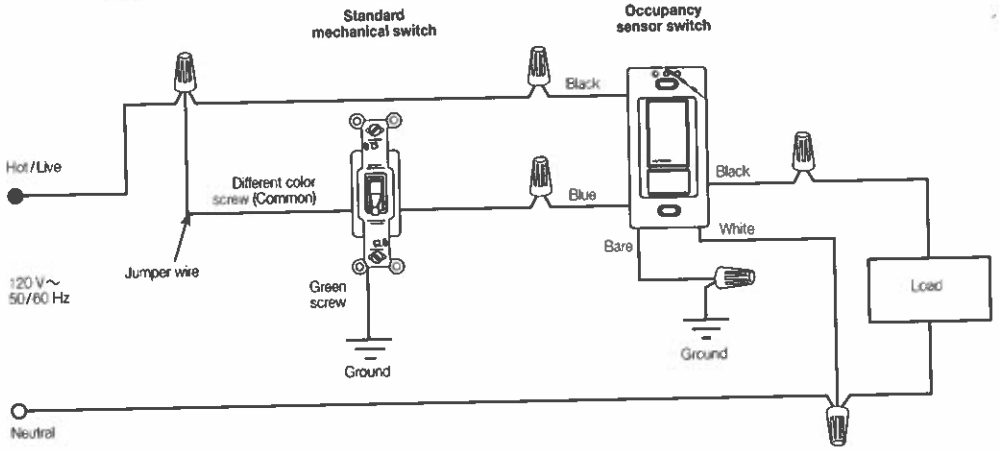
1. When using controls in single location installations, tighten the blue terminal or cap blue wire. Do not connect the blue terminal/wire to any other wire or to ground.
2. Only one occupancy sensor switch can be used per multi-location circuit.
3. A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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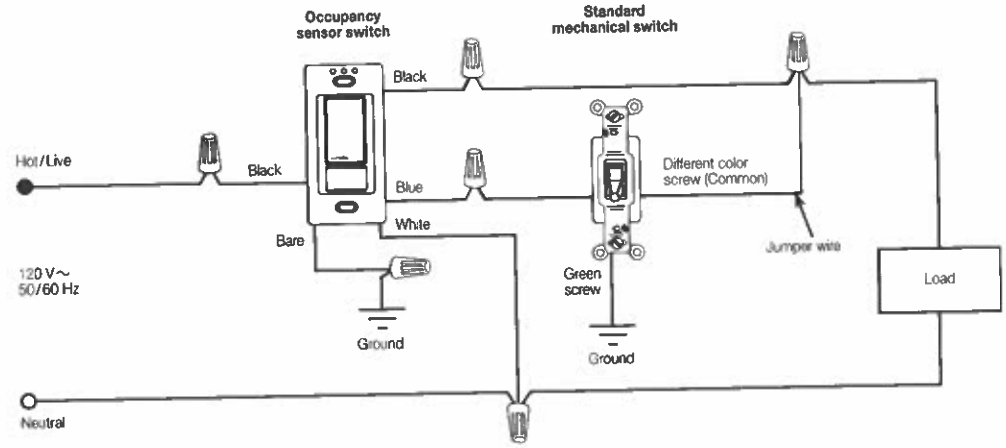
Wiring Diagrams *(continued)*

Wiring Diagram 4 - with Neutral

3-way Installation with Standard Mechanical Switch (277 V~)[1, 2, 3]
-OPS6M2-DV, -VPS6M2-DV



OR



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

1 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
2 Only one occupancy sensor switch can be used per multi-location circuit.
3 Fan load applies to 120 V~ only (not for 277 V~).
4 Occupancy sensor switch can be installed in any location.

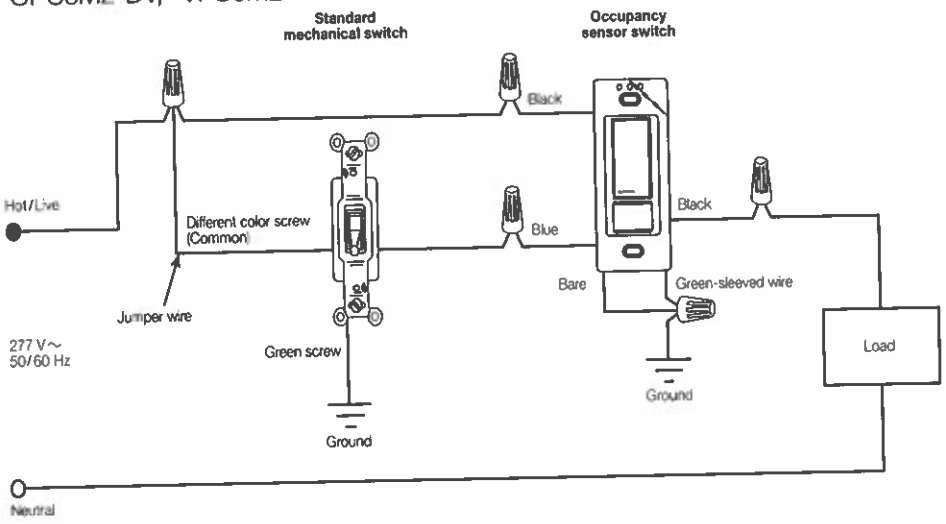
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Wiring Diagrams *(continued)*

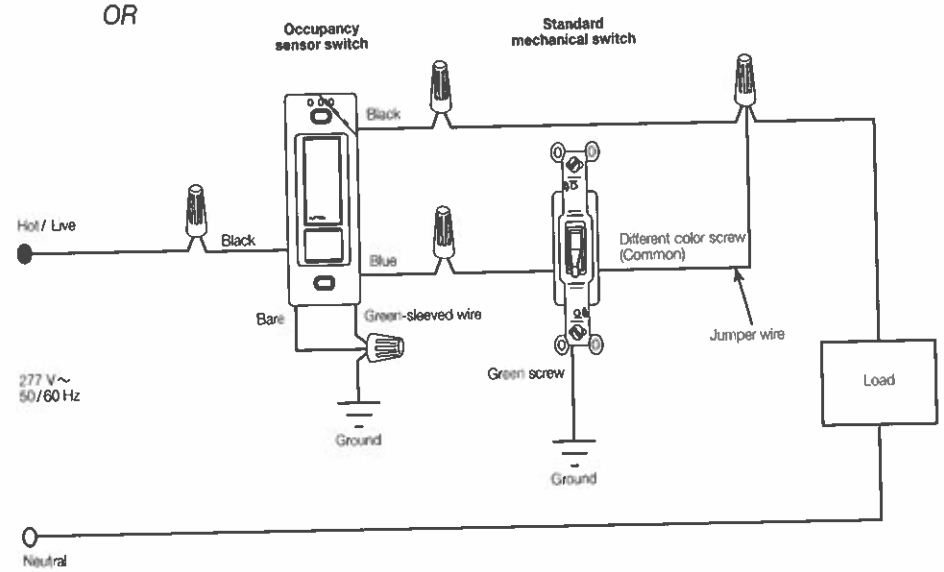
Wiring Diagram 4 - without Neutral

3-way Installation with Standard Mechanical Switch (277 V~)[1, 2, 3]

-OPS6M2-DV, -VPS6M2-DV



OR



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

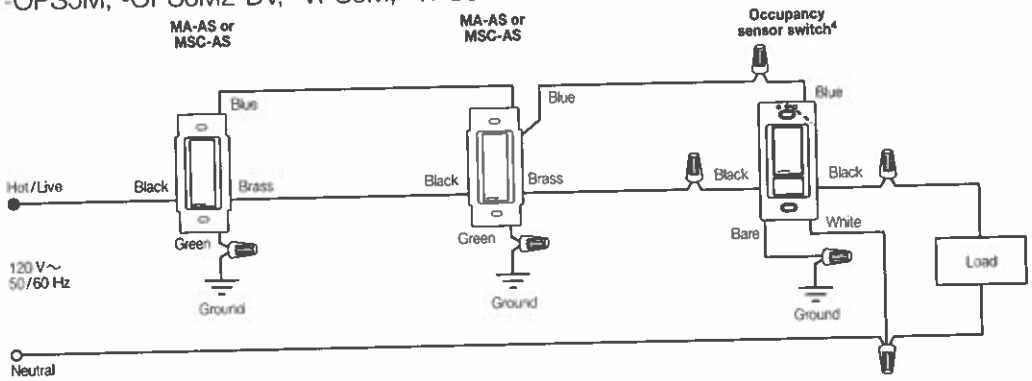
1. A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
2. Only one occupancy sensor switch can be used per multi-location circuit.
3. Fan load applies to 120 V~ only (not for 277 V~).
4. Occupancy sensor switch can be installed in any location.

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Wiring Diagrams *(continued)*

Wiring Diagram 5 - with Neutral

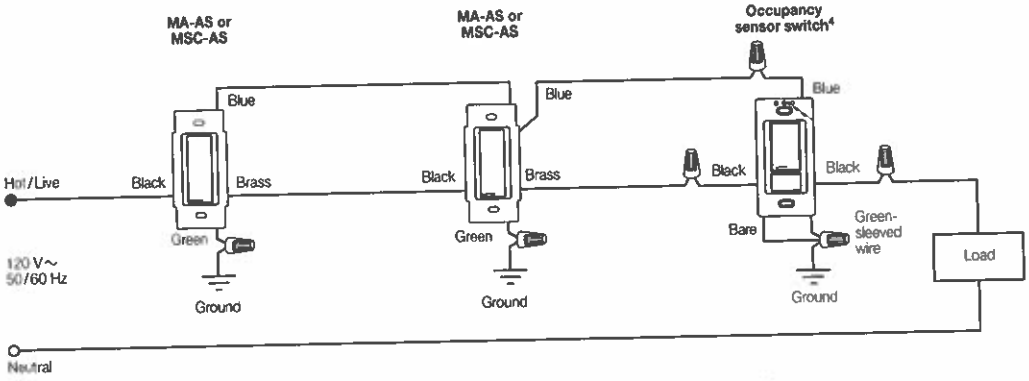
Multi-Location Installation (120 V~)[1, 2, 4]
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV with MA-AS or MSC-AS



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

Wiring Diagram 5 - without Neutral

Multi-Location Installation (120 V~)[1, 2, 4]
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV with MA-AS or MSC-AS



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

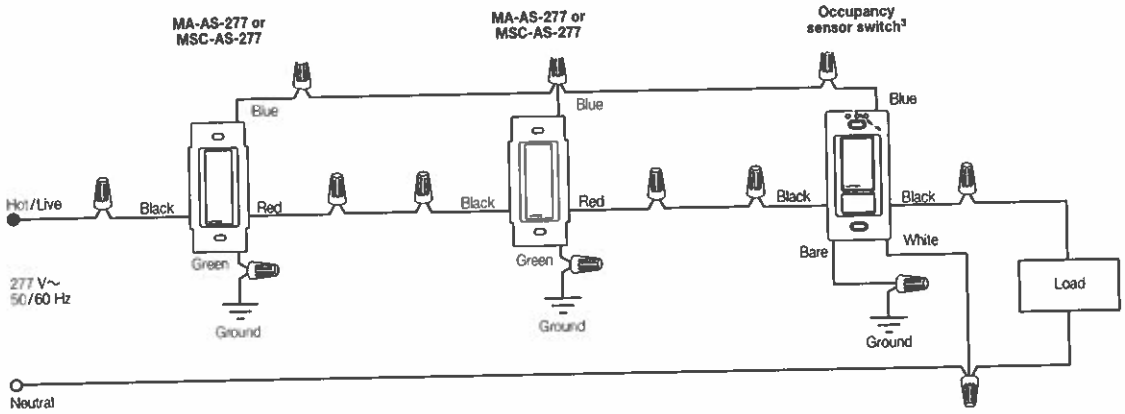
1 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
2 Only one occupancy sensor switch can be used per multi-location circuit.
3 Fan load applies to 120 V~ only (not for 277 V~).
4 Occupancy sensor switch can be installed in any location.

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Wiring Diagrams *(continued)*

Wiring Diagram 6 - with Neutral

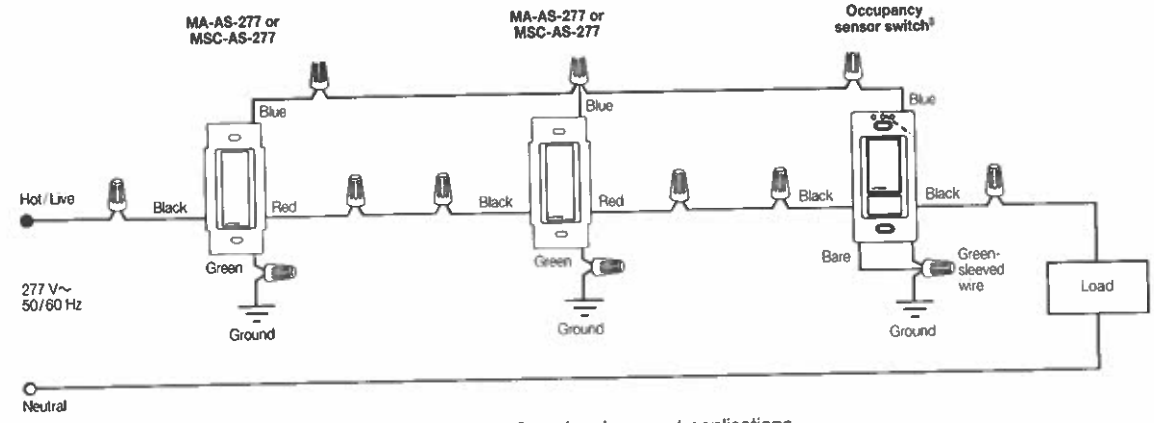
Multi-Location Installation (277 V~)[1, 2, 3, 4]
-OPS6M2-DV, -VPS6M2-DV with MA-AS-277 or MSC-AS-277



Note: When a neutral connection is available, remove the green sleeve and connect the white wire to neutral.

Wiring Diagram 6 - without Neutral

Multi-Location Installation (277 V~)[1, 2, 3, 4]
-OPS6M2-DV, -VPS6M2-DV with MA-AS-277 or MSC-AS-277



Note: Connect green-sleeved wire to ground only in retrofit and replacement applications.

1 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most occupancy sensor switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
2 Only one occupancy sensor switch can be used per multi-location circuit.
3 Fan load applies to 120 V~ only (not for 277 V~).
4 Occupancy sensor switch can be installed in any location.

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Maestro | **Switch with Occupancy/Vacancy Sensor** | **Sensor**

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Colors and Finishes

Gloss Finishes


White
WH


Ivory
IV


Almond
AL


Light Almond
LA


Gray
GR


Brown
BR


Black
BL

Satin Finishes


Snow
SW


Midnight
MN


Taupe
TP


Biscuit
BI


Palladium
PD


Hot
HT

For the latest color offerings
please see our website:
http://www.lutron.com/satincolors

- Due to printing limitations, colors and finishes shown cannot be guaranteed to match actual product colors perfectly.
- Color chip keychains are available for more precise color matching:
  Gloss Finishes: DG-CK-1
  Satin Finishes: SF-CK-1

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