ATLANTIC CITY CONVENTION CENTER

JIM WHELAN BOARDWALK HALL

OVG OAK VIEW GROUP

TO: Bid Responders

FROM: Clark Hughes

DATE: **October 31, 2025**

SUBJECT: **JIM WHELAN BOARDWALK HALL ATLANTIC CITY CONVENTION CENTER- GENERAL INFORMATION**

Bidders should be aware that all submitted **sealed** bids are carefully reviewed for compliance, and non-compliant bids are rejected. Please carefully review your bid submissions for compliance. The following information is required but not limited to.

Documents that must be submitted at the time of the bid.

1. Section: 1.0, 1.13 - **Must provide documentation.** Bidder to provide documentation evidencing that the firm meets the minimum requirements. (Sect 1.13).
2. Bidder and subcontractors must provide copies of the Business Registration Certificate, New Jersey Department of Labor & Workforce Development Certificate, and Public Works Contractor Registration Certificate.
3. Bidder's Insurance certificate showing evidence of coverage limits, and declaration pages for current policies.

The following Exhibits provided in the bid package must be completed and executed and provided with the bid.

Attachment 1	Signatory Page
Attachment 2	Professional Services Agreement **Contract must be signed with the submitted bid.**
Attachment 3	Disclosure of Investigation and Actions Involving Respondent
Attachment 4	Notice of Intent to Subcontract
Attachment 5	Subcontractor Utilization Form
Attachment 6	N.J.S.A. 52:34-13.2 Certification Source Disclosure Certification Form
Attachment 7	Goods, Professional Services and General Services Contracts.
Attachment 8	Public Law 2005, Chapter 51 and Executive Order 117 (2008) Part 3: Certification – One of the four options must be marked (i, ii, (C) (D)) off.
Attachment 9	Non-Collusion Affidavit Form
Attachment 10	Fee Schedule
Attachment 11	Disclosure of Investigation Activities in Iran

NOTE: **Contract modification requests shall be presented during the Question-and-Answer period**.

ATLANTIC CITY CONVENTION CENTER

JIM WHELAN BOARDWALK HALL

OVG OAK VIEW GROUP

TO: Bid Responders

FROM: Clark Hughes

DATE: November 3, 2025

SUBJECT: ACCC LIGHTING CONTROLS UPGRADES – ADDENDUM #4

Comments

1. The attached are the manufacturer's data sheets for the replacement LED light fixtures in Hall A.

Cc: Jim McDonald
Jason Resetar
Shawn McCabe

Atth: Hall A Spec Sheets

Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	

Surface Mount

Wall Mount

Portfolio

LSR8B EC8B 8L

High Bay / Low Bay Ceiling, Pendant or Wall Mount

Typical Applications

Office • Education • Healthcare • Hospitality

Interactive Menu

Product Certification

ENERGY STAR · RoHS COMPLIANT · UL CERTIFIED · wet location · DLC LISTED

Control Compatibility

WaveLinx LITE · WaveLinx PRO

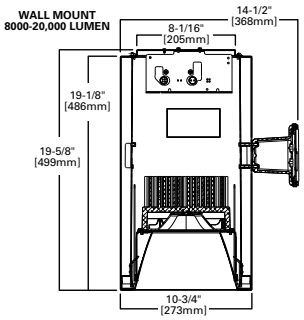
Product Features

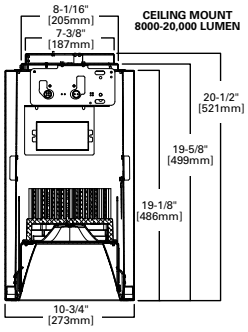
D2W™ · VividTune · powered by fifthlight technology · damp location · TAA COMPLIANT OPTIONS AVAILABLE

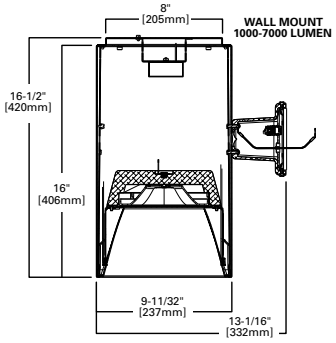
Top Product Features

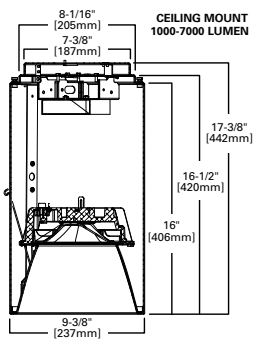
- 1,000 to 17,500 lumens; Surface, wall or optional pendant mount
- Offered in narrow beam, medium beam and wide beam distributions; 80, 90 or 97 CRI
- 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- W2N tunable white CCT range from 2700K to 6500K or 2000K to 5000K
- Two-stage reflector system produces smooth beam
- Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details









Order Information

SAMPLE ORDER NUMBER: **LSR8B20D010MB**

Domestic Preferences	Housing	Lumens	Voltage	Driver	
Domestic Preferences[18]	Housing	Lumens[1]	Voltage	Driver	
				1 Driver	2 and 3 Drivers
[Blank]=Standard **TAA**=Trade Agreements Act	**LSR8B**=Surface Ceiling Mount Cylinder **LSRWM8B**=Wall Mount Cylinder	**10**=1000 lumens **15**=1500 lumens **20**=2000 lumens **30**=3000 lumens **40**=4000 lumens **50**=5000 lumens **60**=6000 lumens **70**=7000 lumens **80**=8000 lumens **90**=9000 lumens **100**=10000 lumens **120**=12000 lumens **150**=15000 lumens **175**= 17500 lumens remote driver only	**blank**=120-277V **3**=347V[2]	**1000-4000 Lumen**[4] **D010**=0-10V Dimming, 1% to 100%, 120V-277V **D010TR**=0-10V 120-277V or 120V Line Voltage Dimming, 1% to 100% **DE010**=0-10V Linear Dimming, 0% to 100%, 120V-277V **D5LT**=Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V **DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V[3] **DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection[3] **DL2**=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only **DLE**=Lutron Ecosystem dimming 1% to 100% **DLV**=Low Voltage System[6] **5000, 6000, and 7000 Lumen**[5] **D010TE**=0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) **Tunable white 1000-2000** **DE010W2N**=0-10V dimming, 0% to 100%,120V **D5LTW2N**=Fifth Light (DALI) Logarithmic Dimming, 0% to 100% **DE010W2N2765** = 0-10V dimming, 0% to 100%, 120-277V, 2700K-6500K **DE010W2N2050** = 0-10V dimming, 0% to 100%, 120-277V, 2000K-5000K **D5LTW2N2765** = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2700K-6500K **D5LTW2N2050** =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2000K-5000K	**4000 and 6000 Lumen D2W (2 Drivers)** **6000, 8000 and 9000 Lumen (2 Drivers)** **9000 Lumen D2W (3 Drivers)** **12,000 Lumen (3 Drivers)** **D010**=0-10V, 120V-277V Dimming, 1% to 100% **D010TR**=0-10V, 120V-277V or 120V Line Voltage Dimming, 1% to 100% **DE010**=0-10V, 120V-277V Linear Dimming, 0% to 100% **D5LT**=Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V **DMX**=120V-277V, DMX/RDM Logarithmic Dimming, 0% to 100%[3] **DMXC5**=120V-277V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection[3] **DL2**=120V Lutron® Hi-Lume Forward Phase Dimming, 1% to 100% **DLE**=120V-277V, Lutron Ecosystem dimming 1% to 100% **10,000, 12,000, 15,000, 17,500 Lumen** **D010TE**=0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V **Tunable white 3000-4000** **1DE010W2N**=0-10V dimming, 0% to 100%, 120V-277V **1D5LTW2N**=120V-277V, Fifth Light (DALI) Logarithmic Dimming, 0% to 100% **DE010W2N2765** = 0-10V dimming, 0% to 100%, 120-277V, 2700K-6500K **DE010W2N2050** = 0-10V dimming, 0% to 100%, 120-277V, 2000K-5000K **D5LTW2N2765** = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2700K-6500K **D5LTW2N2050** =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2000K-5000K
Notes (18) Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.	**Notes**	**Notes** (1) Nominal Lumens will vary depending on selected color, driver and reflector finish.	**Notes** (2) 347V integral D010 only.	**Notes** (3) DMX fixtures default to full on upon loss of DMX signal. (4) For D2W up to 3000 lumens. (5) Not for use with D2W. (6) Limited to 3000 Lumens	

Dim to Warm	Remote	Finish
Dim to Warm	Remote	Finish[8]
blank= For 3000 and below **D2W** = For 4000, 6000 and 9000	**blank**= Integral driver **R**= Remote driver[7]	**P=**White **MB=**Matte Black **SL=**Silver **BZ=**Bronze
Notes	**Notes** (7) Order remote driver separately. See below to order.	**Notes** (8) Consult factory for custom finishes

SAMPLE ORDER NUMBER: **ER8B30408035**

Power Module	Lumen Levels	Color		
Power Module	Lumen Levels[1]	Color		
EC8B=8" LED Module for 7000 lumen and below **ER8B**=8" LED Module for 8000 lumen and above, and with multiple drives	**1 Driver** **1020=**1000, 1500, or 2000 Lumens **3040=**3000 or 4000 Lumens **5070=**5000, 6000, or 7000 lumens **2 Drivers** **60=**6000 lumens, 2 LEDs **80120=**8000, 9000, 10000, or 12000 lumens **3 Drivers** **120=**12000 lumens, 3 LEDs **150200=**15000, or 17500	**80 CRI** **8027**= 80CRI, 2700K **8030**= 80CRI, 3000K **8035**= 80CRI, 3500K **8040**= 80CRI, 4000K **8050**= 80CRI, 5000K	**90 CRI** **9024**= 90CRI, 2400K **9027**= 90CRI, 2700K **9030**= 90CRI, 3000K **9035**= 90CRI, 3500K **9040**= 90CRI, 4000K **9050**= 90CRI, 5000K	**97 CRI** **9727**= 97CRI, 2700K **9730**= 97CRI, 3000K
		Dim 2 Warm 1 Driver **109030D2W=**1000 Lumen, 90 CRI, Dim 2 Warm, IC Rated **159030D2W=**1500 Lumen, 90 CRI, Dim 2 Warm, IC Rated **209030D2W=**2000 Lumen, 90 CRI, Dim 2 Warm, IC Rated **309030D2W=**3000 Lumen, 90 CRI, Dim 2 Warm **Dim 2 Warm 2 Drivers** **409030D2W=**4000 Lumen, 90 CRI, Dim 2 Warm **609030D2W=**6000 Lumen, 90 CRI, Dim 2 Warm **Dim 2 Warm 3 Drivers** **909030D2W=**9000 Lumen, 90 CRI, Dim 2 Warm	**W2N Tunable White 1 Driver** **10W2N902050=**1000 lumens, 90 CRI, Tunable white 2000K - 5000K **10W2N902765=**1000 lumens, 90 CRI, Tunable white 2700K - 6500K **15W2N902050=**1500 lumens, 90 CRI, Tunable white 2000K - 5000K **15W2N902765=**1500 lumens, 90 CRI, Tunable white 2700K - 6500K **20W2N902050=**2000 lumens, 90 CRI, Tunable white 2000K - 5000K **20W2N902765=**2000 lumens, 90 CRI, Tunable white 2700K - 6500K **W2N Tunable White 2 Drivers** **30W2N902050=**3000 lumens, 90 CRI, Tunable white 2000K - 5000K **30W2N902765=**3000 lumens, 90 CRI, Tunable white 2700K - 6500K **40W2N902050=**4000 lumens, 90 CRI, Tunable white 2000K - 5000K **40W2N902765=**4000 lumens, 90 CRI, Tunable white 2700K - 6500K	
Notes	**Notes** (1) Nominal Lumens will vary depending on selected color, driver and reflector finish.	**Notes**		

Order Information

REQUIRED if Remote Driver (R) is specified on Cylinder

Domestic Preferences | Remote Drivers | Lumens | Voltage | Driver

Domestic Preferences[18]	Remote Drivers[9]	Lumens	Voltage	Driver	
				1 Driver	2 and 3 Drivers
[Blank]=Standard **TAA**=Trade Agreements Act	**R100**=Remote 100 ft **R75**= Remote 75ft **R50**= Remote 50 ft **R25**= Remote 25ft **R15**= Remote 15ft **R5**= Remote 5ft **R2**= Remote 2 ft	**10**=1000 lumens **15**=1500 lumens **20**=2000 lumens **30**=3000 lumens **40**=4000 lumens **50**=5000 lumens **60**=6000 lumens **70**=7000 lumens **80**=8000 lumens **90**=9000 lumens **100**=10000 lumens **120**=12000 lumens **150**=15000 lumens **175**= 17500 lumens	**blank**=120-277V[10] **1**=120V **2**=277V **3**=347V	**1000-4000 Lumen**[4] **D010**=0-10V Dimming, 1% to 100%, 120V-277V **D010TR**=0-10V 120-277V or 120V Line Voltage Dimming, 1% to 100% **DE010**=0-10V Linear Dimming, 0% to 100%, 120V-277V **D5LT**=Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V **DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V[3] **DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection[3] **DL2**=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only **DLE**=Lutron Ecosystem dimming 1% to 100% **DLV**=Low Voltage System[6] **5000, 6000, and 7000 Lumen**[5] **D010TE**=0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) **Tunable white 1000-2000** **DE010W2N**=0-10V dimming, 0% to 100%,120V **D5LTW2N**=Fifth Light (DALI) Logarithmic Dimming, 0% to 100% **DE010W2N2765** = 0-10V dimming, 0% to 100%, 120-277V, 2700K-6500K **DE010W2N2050** = 0-10V dimming, 0% to 100%, 120-277V, 2000K-5000K **D5LTW2N2765** = Fifth Light DALI dimming, 0% to 100%, 120-277V, 2700K-6500K **D5LTW2N2050** =Fifth Light DALI dimming, 0% to 100%, 120-277V, 2000K-5000K	**4000 and 6000 Lumen D2W (2 Drivers)** **6000, 8000 and 9000 Lumen (2 Drivers)** **9000 Lumen D2W (3 Drivers)** **12,000 Lumen (3 Drivers)** **D010**=0-10V, 120V-277V Dimming, 1% to 100% **D010TR**=0-10V, 120V-277V or 120V Line Voltage Dimming, 1% to 100% **1DE010**=0-10V, 120V-277V Linear Dimming, 0% to 100% **D5LT**=120V-277V Fifth Light® (DALI) Logarithmic Dimming, 0% to 100% **DMX**=120V-277V, DMX/RDM Logarithmic Dimming, 0% to 100%[3] **DMXC5**=120V-277V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection[3] **DL2**=120V Lutron® Hi-Lume Forward Phase Dimming, 1% to 100% **DLE**=120V-277V, Lutron Ecosystem dimming 1% to 100% **10,000, 12,000, 15,000, 17,500 Lumen** **D010TE**=0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V
Notes (18) Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.	**Notes** (9) Lutron driver limited to 25'	**Notes**	**Notes** (10) 3000 and below. Up to 3000 lumens does not need voltage specified.	**Notes** (3) DMX fixtures default to full on upon loss of DMX signal. (4) For D2W up to 3000 lumens. (5) Not for use with D2W. (6) Limited to 3000 Lumens	

Options | Controls

Options	Controls
EM7=7W emergency module with remote test switch **EM14**=14W emergency module with remote test switch **EMBOD**=Bodine® Emergency Module with Remote Test Switch **EMV7**=7W emergency module for use with DLV driver with remote test switch **EMV14**=14W emergency module for use with DLV driver with remote test switch	**WPST** = Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [12] [16] **WLST** = Factory installed WaveLinx LITE Sensor Kit [12] [17] **WPN** = WaveLinx PRO Wireless Node without sensor [20]
Notes	**Notes** (12) Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. (16) WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only. (17) WLST = WaveLinx Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx Lite system specifications) (20) WPN = WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.

SAMPLE ORDER NUMBER: **8LBM3LI**

Trim | Distribution | Flange | Finish

Trim	Distribution[13]	Flange	Finish
8LB=8" Reflector	**N**=Narrow Spun Aluminum **M**=Medium Spun Aluminum **W**=Wide Spun Aluminum **S**=Shallow Spun Aluminum **SW**=Single Wall Wash, Spun Aluminum **DW**=Double Wall Wash, Spun Aluminum	**3**=Rimless	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **WH**=Wheat **GPH**=Graphite Haze **B**=Specular Black **MW**=Matte White
Notes	**Notes** (13) Beam angles are nominal with LI finish trims.	**Notes**	**Notes**

	NOMINAL BEAM ANGLES WITH LI FINISH			
	Narrow	Medium	Wide	Shallow
1000-7000	15	40	73	86
8000-12000	30	44	73	86
15000-20000	34	46	73	86

Order Information

Accessories	Type	Lengths
Accessories[18]	**Type**	**Lengths**
Pendant Kit[15] **P836P**=White pendant stem kit **P836BZ**=Bronze pendant stem kit **P836MB**=Matte black pendant stem kit **P836SL**=Silver pendant stem kit	**Blank**=5 conductor for use with 0-10V driver **3C**=3 conductor for use with 120 or 277V **5C**= 5 conductor for use with D5LT drivers **DMX**=No conductors for use with DMX **RM** = for Remote drivers	**Blank**=36" **SP***=* Specify 6" to 144" in 1" increments
Conduit Pendant Kit **PMRCC6P** = Round pendant stem kit with conduit knockout cover, white **PMRCC6MB** = Round pendant stem kit with conduit knockout cover, black **PMRCC6BZ** = Round pendant stem kit with conduit knockout cover, bronze **PMRCC6SL** = Round pendant stem kit with conduit knockout cover, silver		**Blank**=36" **SP***=* Specify 6" to 144" in 1" increments
Aircraft cable[19] **AC120P=**120" white aircraft cable kit **AC48P**=48" white aircraft cable kit **AC120MB=**120" black aircraft cable kit **AC48MB**=48" black aircraft cable kit	**Blank**=5 conductor **DMXC5**=DMX/RDM logarithmic Dimming with RJ45 connection	
Notes (15) 0-45° slope (19) Not for use with remote drivers.	**Notes**	**Notes**

Product Specifications

Lower Reflector
- Self-flanged, spun 0.062" thick aluminum lower reflector with a lensed upper optical chamber provides superior lumen output with minimal source brightness

Trim Retention
- Two torsion springs hold flange tightly to the cylinder lip

Housing
- Round seamless .060" thick spun aluminum housing
- White, bronze, silver or matte black. Consult factory for custom finishes
- Available in standard and shallow heights

Mounting
- Ceiling mounting plate installs to mounted junction box
- Cylinder mounts to plate with easy twist and lock hooks for ceiling mount
- For wall mount, mounting bracket plate attaches directly to wall-mounted junction box
- Optional pendant kits allow unit to be stem hung on ceilings with up to 45° slope

LED System
- Contains a plurality of high brightness white LED's combined with high reflectance upper reflector and convex transitional lens producing even distribution with no pixilation
- Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours)
- Color variation within 2-step MacAdam ellipses
- Flexible disconnect allows for tool-less replacement of LED engine from below ceiling
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Available in 80, 90 or 97 color rendering index (CRI)

VividTune™ Color Tuning Solutions
- D2W™ – Dim-to-Warm shifts CCT from 3000K to 1850K as fixture dims, mimicking halogen sources
- W2N – Tunable white CCT range from 2700K to 6500K or 2000K to 5000K; 90 CRI

Driver
- Combination 0-10V trailing edge driver provides flicker-free dimming from 100% to 10%
- Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- 1,000 - 7,000 lumens utilize one driver; 8,000 - 12,000 lumens utilize two drivers; 15,000 lumens utilize three drivers; reference ordering information for other variations
- Remote driver option up to 100' based on driver selection
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Connected Lighting System Options
Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit
- WaveLinx WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node
- WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.

WaveLinx LITE Tilemount Sensor Kit
- WaveLinx LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application
- The WPST and WLST tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WPST and WLST tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Compliance
- Pendant and wall mount and 15,000 lumen cylinder cULus Listed for damp locations
- Ceiling surface mount cULus Listed for protected wet locations with covered ceiling
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- RoHS compliant
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details
- Photometric testing completed in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11

Warranty
- Five year warranty www.cooperlighting.com/legal

Color Metric Summary

8027	
R_f	93.2
R_g	94.1
CRI	81.3
R_9	0.7

8030	
R_f	83.4
R_g	94.4
CRI	82.4
R_9	4.5

8035	
R_f	83.7
R_g	94.8
CRI	83.1
R_9	9.1

8040	
R_f	83.3
R_g	94
CRI	83.7
R_9	9.9

8050	
R_f	82.5
R_g	94.3
CRI	94.2
R_9	11.9

9027	
R_f	92
R_g	98.4
CRI	93.4
R_9	59.3

9030	
R_f	91.6
R_g	98.6
CRI	93.2
R_9	60.2

9035	
R_f	90.9
R_g	98.3
CRI	93.3
R_9	63.1

9040	
R_f	89.4
R_g	96.6
CRI	91.8
R_9	58

9050	
R_f	88.4
R_g	96.8
CRI	91
R_9	55.2

9727	
R_f	95
R_g	100.1
CRI	98
R_9	93.9

9730	
R_f	94.2
R_g	99.6
CRI	98.5
R_9	94.7

Energy Data

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Power Factor: >0.90
Input Frequency: 50/60Hz

1000 Lumen D010	
Input Power: 11W	THD <14%
Input Current: 0.09A	277V Input Current: 0.04A

1500 Lumen D010	
Input Power: 15.5W	THD <13%
Input Current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010	
Input Power:21.2 W	THD <9%
Input Current:0.18A	277V Input Current:0.08A

3000 Lumen D010	
Input Power:27.6 W	THD <10%
Input Current:0.23A	277V Input Current:0.10A

4000 Lumen D010	
Input Power: 41.6 W	THD <13%
Input Current: 0.35A	277V Input Current: 0.15A

5000 Lumen D010TE	
Input Power: 52.5 W	THD <12%
Input Current: 0.44A	277V Input Current: 0.19A

6000 Lumen D010TE	
Input Power: 59.7W	THD <14%
Input Current:0.50A	277V Input Current:0.22A

7000 Lumen D010TE	
Input Power:75.8 W	THD <13%
Input Current:0.64A	277V Input Current:0.29A

8000 Lumen D010	
Input Power:73.8 W	THD <13%
Input Current:0.62A	277V Input Current:0.26A

9000 Lumen D010	
Input Power:86.9 W	THD <13%
Input Current:0.72A	277V Input Current:0.32A

10000 Lumen D010TE	
Input Power:115.4 W	THD <13%
Input Current:0.96A	277V Input Current:0.42A

12000 Lumen D010TE	
Input Power:119.4 W	THD <13%
Input Current:1.0A	277V Input Current:0.43A

15000 Lumen D010TE	
Input Power:173.7 W	THD <13%
Input Current:1.45A	277V Input Current:0.63A

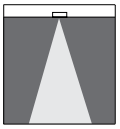
17500 Lumen D010TE	
Input Power:179.1 W	THD <13%
Input Current:1.49A	277V Input Current:0.65A

Photometric Data

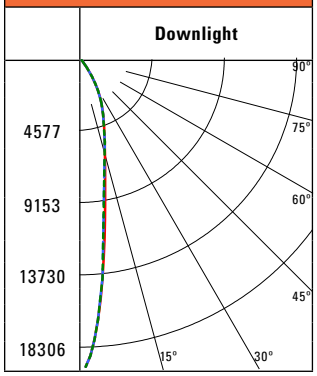
View IES files

NARROW (30° BEAM)

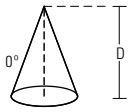
Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBN0H
Lumens	4986
Efficacy	94.1 Lm/W
SC	0.32



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	1144.4	1.2	1.2
7'	373.7	2.2	2.2
9'	226.1	2.8	2.8
13'	108.3	4	4
16'	71.5	5	5

CANDELA TABLE

Degrees Vertical	Candela
0	18310
5	14091
15	5762
25	3117
35	1021
45	99
55	5
65	1
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

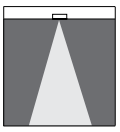
Zone	Lumens	% Fixture
0-30	4214	84.5
0-40	4883	97.9
0-60	4983	99.9
0-90	4986	100
90-180	0	0
0-180	4986	100

LUMINANCE

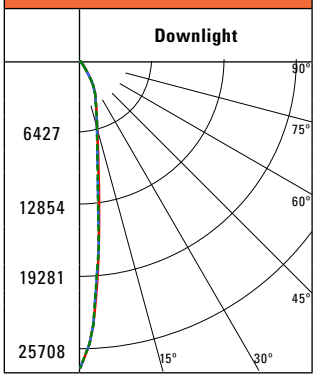
Average Candela Degrees	Average 0° Luminance
45	4330
55	253
65	88
75	143
85	0

NARROW (30° BEAM)

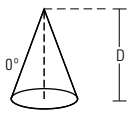
Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBN0LI
Lumens	5248
Efficacy	99 Lm/W
SC	0.25



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	1607	1	1
7'	524.7	1.6	1.6
9'	317.4	2.2	2.2
13'	152.1	3.2	3.2
16'	100.4	4	4

CANDELA TABLE

Degrees Vertical	Candela
0	25712
5	17790
15	5743
25	3148
35	879
45	101
55	7
65	7
75	4
85	0
90	0

ZONAL LUMEN SUMMARY

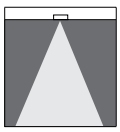
Zone	Lumens	% Fixture
0-30	4514	86
0-40	5134	97.8
0-60	5238	99.8
0-90	5248	100
90-180	0	0
0-180	5248	100

LUMINANCE

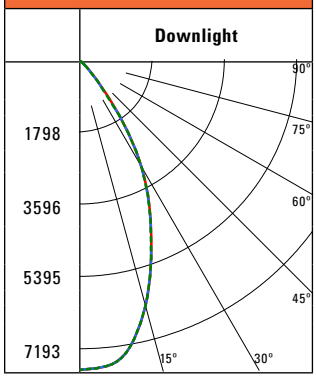
Average Candela Degrees	Average 0° Luminance
45	4422
55	382
65	518
75	429
85	0

MEDIUM (50° BEAM)

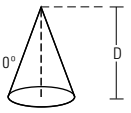
Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBM0H
Lumens	5426
Efficacy	102.4 Lm/W
SC	0.8



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	449.8	3.2	3.2
7'	146.9	5.6	5.6
9'	88.8	7.2	7.2
13'	42.6	10.4	10.4
16'	28.1	12.8	12.8

CANDELA TABLE

Degrees Vertical	Candela
0	7197
5	7141
15	5914
25	3883
35	1774
45	244
55	16
65	2
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

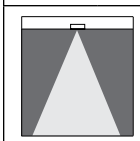
Zone	Lumens	% Fixture
0-30	4078	75.2
0-40	5174	95.4
0-60	5422	99.9
0-90	5426	100
90-180	0	0
0-180	5426	100

LUMINANCE

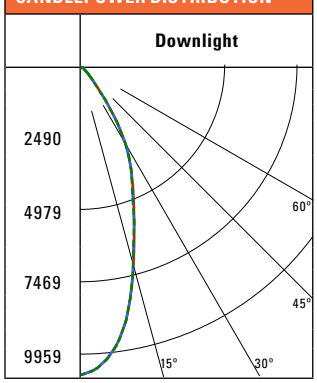
Average Candela Degrees	Average 0° Luminance
45	10619
55	887
65	175
75	143
85	0

MEDIUM (50° BEAM)

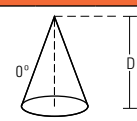
Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBM0LI
Lumens	5711
Efficacy	107.8 Lm/W
SC	0.63



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	622.7	2.4	2.4
7'	203.3	4.4	4.4
9'	123	5.6	5.6
13'	59	8	8
16'	38.9	10	10

CANDELA TABLE

Degrees Vertical	Candela
0	9963
5	9498
15	6587
25	3908
35	1559
45	219
55	27
65	7
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	4491	78.6
0-40	5481	96
0-60	5702	99.8
0-90	5711	100
90-180	0	0
0-180	5711	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9546
55	1435
65	518
75	214
85	0

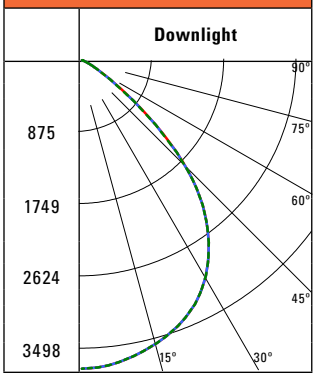
Photometric Data

View IES files

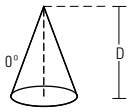
SHALLOW (75° BEAM)

Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBS0H
Lumens	6035
Efficacy	113.9 Lm/W
SC	1.2

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	218.9	4.6	4.6
7'	71.5	8.2	8.2
9'	43.2	10.6	10.6
13'	20.7	15.4	15.4
16'	13.7	19	19

CANDELA TABLE

Degrees Vertical	Candela
0	3502
5	3477
15	3322
25	3056
35	2525
45	1630
55	459
65	84
75	18
85	4
90	0

ZONAL LUMEN SUMMARY

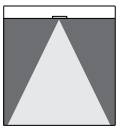
Zone	Lumens	% Fixture
0-30	2670	44.2
0-40	4240	70.2
0-60	5920	98.1
0-90	6035	100
90-180	0	0
0-180	6035	100

LUMINANCE

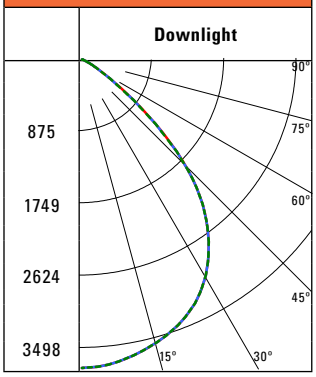
Average Candela Degrees	Average 0° Luminance
45	71087
55	24682
65	6100
75	2121
85	1274

SHALLOW (75° BEAM)

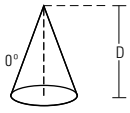
Test Number	
Housing	LSR8B50D010
Module	ER8B50835
Trim	8LBS0LI
Lumens	6206
Efficacy	117.1 Lm/W
SC	1.28



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



MH	FC	L	W
4'	216.3	5	5
7'	70.6	8.8	8.8
9'	42.7	11.4	11.4
13'	20.5	16.6	16.6
16'	13.5	20.4	20.4

CANDELA TABLE

Degrees Vertical	Candela
0	3460
5	3462
15	3498
25	3343
35	2681
45	1591
55	418
65	57
75	5
85	2
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2850	45.9
0-40	4513	72.7
0-60	6132	98.8
0-90	6206	100
90-180	0	0
0-180	6206	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	69395
55	22488
65	4159
75	631
85	637

Nominal Scaling From 80 CRI 3500K		
CRI	CCT	Lumen Mult
80	2700	0.938
80	3000	0.962
80	3500	1.000
80	4000	0.993
80	5000	1.013
90	2700	0.784
90	3000	0.826
90	3500	0.853
90	4000	0.891
90	5000	0.922
97	2700	0.696
97	3000	0.737

Nominal Scaling From 5000 lumen package	
LUMEN PACKAGE	LUMEN MULT
1000 LUMEN	0.207
1500 LUMEN	0.280
2000 LUMEN	0.398
3000 LUMEN	0.562
4000 LUMEN	0.799
5000 LUMEN	1.000
6000 LUMEN	1.133
7000 LUMEN	1.368
8000 LUMEN	1.535
9000 LUMEN	1.729
10,000 LUMEN	1.994
12,000 LUMEN	2.261
15,000 LUMEN	2.949
17,500 LUMEN	3.329
20,000 LUMEN	3.924

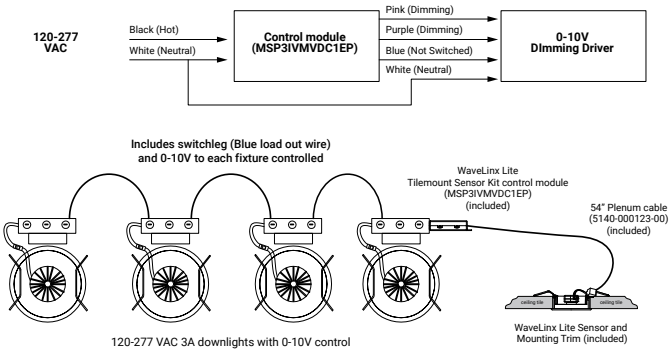
Connected Solutions

WaveLinx LITE - WLST Tilemount Sensor

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details

Device Security | Manual Dimmer | Occupancy Sensor | Daylighting Control | Manually Switched ON/OFF | Tuning Control | Lumen Maintenance Control | Scenes

WaveLinx LITE WLST Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System

WaveLinx PRO Wireless – WPST Tilemount Sensor

- WaveLinx PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

Downlights with tilemount sensor wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

Wireless Wall Station/Receptacle
Provides customized wireless control of each area

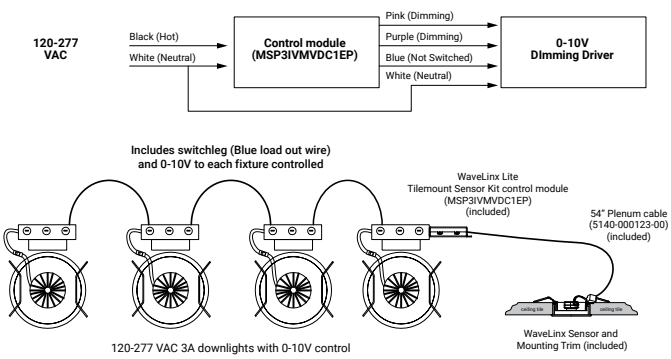
Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

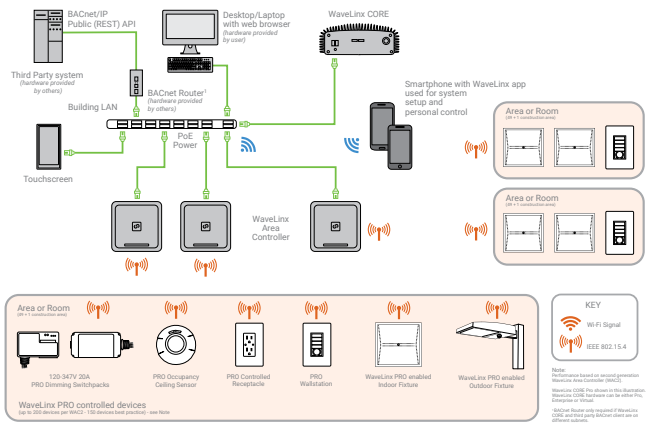
Manual Dimmer | Occupancy Sensor | Lumen Maintenance Control | Daylighting Control

Receptacle Control | Tuning Control | Scheduling | Manually Switched ON/OFF | Demand Response

WaveLinx PRO WPST Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions

WaveLinx PRO Wireless Node - WPN

- WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

Downlights with wireless communication

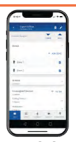
Highly efficient LED fixtures

WaveLinx Area Controller

Provides centralized coordination of multiple area control options

Wireless Wall Station/Receptacle

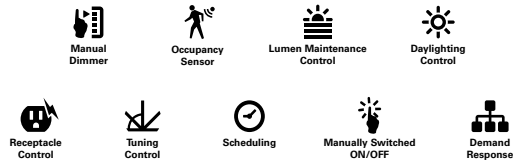
Provides customized wireless control of each area



Mobile Applications

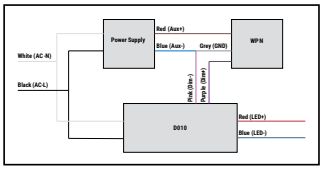
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

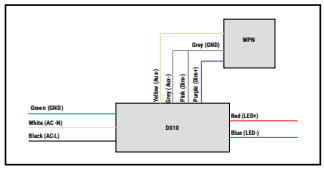


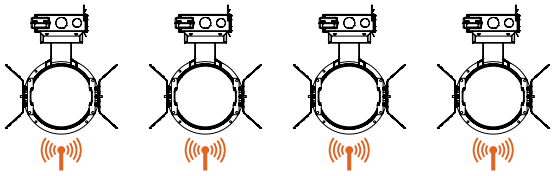
WaveLinx PRO Wireless Node (WPN) Wiring Diagram

For 0-10V drivers 250 lumens and Tunable White



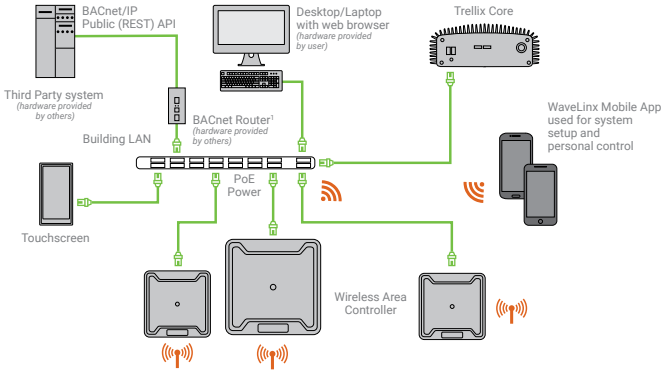
For 0-10V drivers 500 lumens and over





120-277 VAC 3A downlights with 0-10V control

WaveLinx CORE Building Management Integration



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

ADP150116

PORTFOLIO™

Installation Instructions – for the P836 - Pendant Mounting Kit for LED Ceiling Mounted Fixture
Instructions d'installation – pour l'ensemble de montage suspendu P836 pour luminaire à DEL installé au plafond
Instrucciones de instalación para el Kit de montaje suspendido P836 para la luminaria LED de montaje en techo

IMPORTANT: Read carefully before installing fixture. Retain for future reference.

⚠ WARNING

Risk Of Electrical Shock! Disconnect power at fuse or circuit breaker before installing or servicing.

⚠ WARNING

Risk Of Fire! Do not install insulation within 3 inches (76 mm) of any part of the luminaire fixture or in a way that may entrap heat.

Note: Light engine trim to be installed only after cylinder mounting is completed.

Note: This fixture should be supported by main runners or other structure that is capable of supporting fixture weight of 40 lbs.

SAFETY: When using electrical equipment, basic safety precautions should always be followed, including the Installation Instructions given below.

Note: These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every possible contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem, not covered sufficiently for user's purpose, please contact your Portfolio Lighting, Cooper Lighting Solutions representative.

INSTALLATION

1. Mount swivel support to ears on flush mounted junction box (Figure 1.).
2. Place canopy on stem (Figure 1.).
3. Pull incoming wire leads through stem and fixture support mounting plate.
4. Remove locking screw and twist to remove top mounting bracket from cylinder (See main instruction sheet).
5. Mount fixture support mounting plate to cylinder mounting bracket using the two mounting studs and nuts (Figure 1.).
6. Lift fixture and hook tether under one locking nut and tighten nuts.
7. Make appropriate wiring connections (See wiring diagrams from main instruction sheet) raise fixture and engage locking tabs. Rotate fixture locking screw hole shows. Install screw.
8. Insert swivel ball end of stem and fixture assembly into swivel support and splice wires to power supply leads (Figure 1.). (See main instruction sheet)
9. Slide canopy over swivel support and secure by twisting to engage ears on swivel support (Figure 1.).
10. Install modules and trim per instructions provided with the housing (Figure 1.).

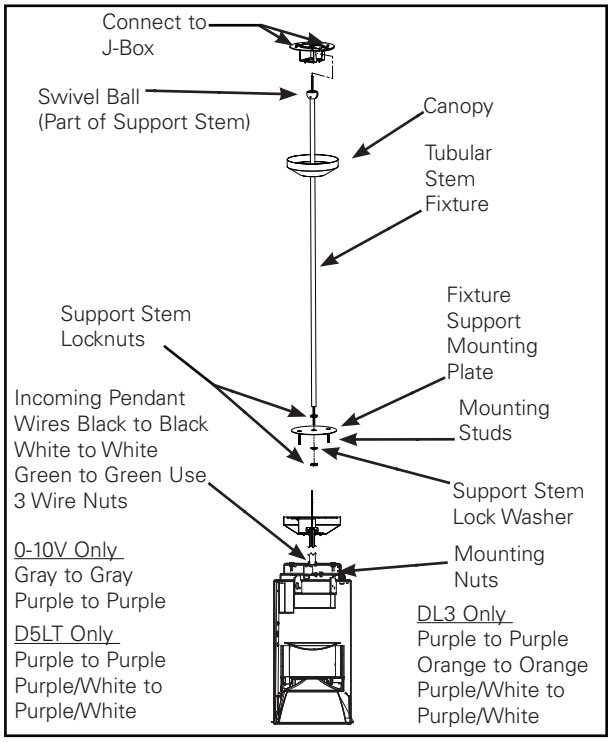


Figure 1.

COOPER Lighting Solutions

IMPORTANT : Lisez attentivement avant d'installer le luminaire. Conservez pour consultation future.

⚠ AVERTISSEMENT

Risque de décharge électrique! Mettez l'alimentation électrique hors tension depuis le fusible ou le disjoncteur avant l'installation ou l'entretien.

⚠ AVERTISSEMENT

Risque d'incendie! N'installez pas d'isolant à moins de 76 mm (3 po) de toute pièce du luminaire ou de manière à empêcher la dissipation de chaleur.

Remarque: Ce luminaire doit être supporté par des rails principaux ou une autre structure capable de supporter un luminaire de 18 kg (40 lb).

SÉCURITÉ : Lorsque vous utilisez un appareil électrique, vous devez toujours respecter les mesures de sécurité élémentaires, y compris les instructions d'installation ci-dessous.

Remarque: Ces instructions ne prétendent pas couvrir tous les détails ou toutes les différences d'équipement, de procédures ou de procédés décrits ni fournir de directives pouvant répondre à toutes les éventualités pouvant survenir pendant l'installation, le fonctionnement ou l'entretien. Si vous désirez obtenir de l'information supplémentaire pour résoudre un problème qui n'est pas suffisamment traité, communiquez avec votre représentant Portfolio Lighting, Cooper Lighting Solutions.

Remarque: Installez la garniture du module d'éclairage uniquement après avoir terminé le montage du cylindre.

INSTALLATION

1. Installez le support à pivot sur les oreilles qui se trouvent sur la boîte de jonction encastrée (Figure 1).
2. Placez le pavillon sur la tige (Figure 1).
3. Tirez les fils entrants dans la tige et la plaque de montage du support du luminaire.
4. Dévissez la vis de blocage et retirez la partie haute du support de montage pour l'enlever du cylindre (consultez la fiche d'instructions).
5. Installez la plaque de montage du support du luminaire sur le support de montage du cylindre à l'aide des deux goujons de montage et des écrous (Figure 1).
6. Soulevez le luminaire et la longe du crochet sous l'un des écrous de blocage et serrez les écrous.
7. Faites les connexions de fils appropriées (voir les schémas de câblage dans la fiche d'instructions) soulevez le luminaire et engagez les languettes de blocage. Faites tourner le luminaire jusqu'à apercevoir le trou destiné à recevoir la vis de blocage. Placez la vis.
8. Glissez l'extrémité à bille de la tige et l'assemblage du luminaire dans le support à pivot puis épissez les fils du bloc d'alimentation (Figure 1). (consultez la fiche d'instructions).
9. Glissez le pavillon par-dessus le support à pivot et fixez-le en le tordant pour enclencher les oreilles sur ce dernier (Figure 1).
10. Installez les modules et la garniture selon les instructions fournies avec le boîtier (Figure 1).

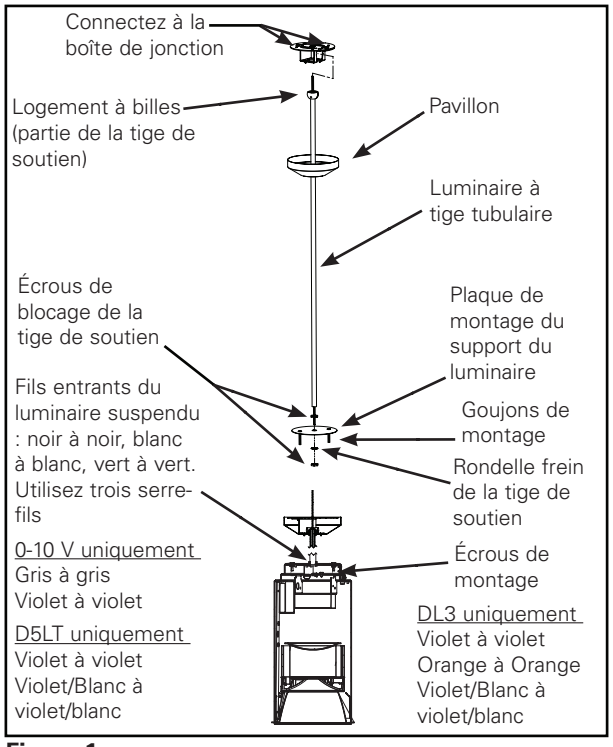


Figure 1.

IMPORTANTE: Lea atentamente antes de instalar la luminaria. Conserve estas instrucciones para tenerlas como referencia futura.

⚠ ADVERTENCIA

¡Riesgo de descarga eléctrica! Desconecte la alimentación en el disyuntor o fusible antes de instalar o realizar tareas de mantenimiento.

⚠ ADVERTENCIA

¡Riesgo de incendio! No instale el aislamiento a menos de 3 pulgadas (76 mm) de cualquier parte de la luminaria o de manera tal que pueda retener calor.

Nota: Esta luminaria debería estar sostenida por guías u otra estructura con capacidad de sostener el peso de la luminaria de 40 libras (18 kg).

SEGURIDAD: Cuando utilice equipos eléctricos, siempre debe seguir precauciones de seguridad básicas, incluidas las Instrucciones de instalación que se indican más abajo.

Nota: Por medio de estas instrucciones, no se pretende cubrir todos los detalles o variaciones en el equipamiento, procedimiento o proceso descriptos ni aportar directivas para tratar cualquier posible contingencia durante la instalación, el funcionamiento o el mantenimiento. Cuando se requiera mayor información para tratar un problema que no está cubierto suficientemente para los fines del usuario, contacte a su representante más cercano de Portfolio Lighting, Cooper Lighting Solutions.

Nota: La moldura del motor de la luz se debe instalar solamente después de completado el montaje del cilindro.

INSTALACIÓN

1. Monte el soporte giratorio sobre las lengüetas de la caja de derivación montada a ras (Figura 1.).
2. Coloque la cubierta de resguardo sobre el caño (Figura 1.).
3. Tire de los cables de alimentación entrantes a través del caño y de la placa de montaje y soporte de la luminaria.
4. Retire el tornillo de bloqueo y gírelo para retirar el soporte de montaje superior del cilindro (Consulte la hoja de instrucciones principal).
5. Monte la placa de montaje y soporte de la luminaria en el soporte de montaje del cilindro, utilizando los dos caños y tuercas a tal efecto (Figura 1.).
6. Levante la luminaria y enganche la cadena debajo de una tuerca de bloqueo y ajuste las tuercas.
7. Realice las conexiones de cableado adecuadas (consultar los diagramas de cableado en la hoja de instrucciones principal), eleve la luminaria y enganche las lengüetas de bloqueo. Rote la luminaria hasta que se vean los orificios del tornillo de sujeción. Instale el tornillo.
8. Inserte el extremo del caño con la bola giratoria y la unidad de la luminaria en el soporte giratorio y empalme los cables en los conectores de la fuente de alimentación (Figura 1.). (Consulte la hoja de instrucciones principal).
9. Deslice la cubierta de resguardo sobre el soporte giratorio y asegúrela haciéndola girar para fijar las lengüetas en el soporte giratorio (Figura 1.).
10. Instale los módulos y la moldura según las instrucciones incluidas con el alojamiento (Figura 1).

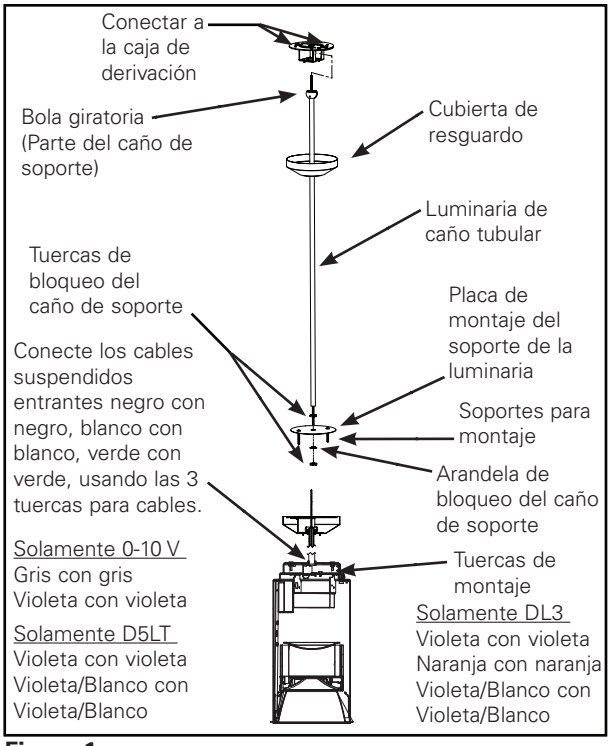


Figura 1.

Warranties and Limitation of Liability

Please refer to **www.cooperlighting.com** for our terms and conditions.

Garanties et limitation de responsabilité

Veuillez consulter le site **www.cooperlighting.com** pour obtenir les conditions générales.

Garantías y Limitación de Responsabilidad

Visite **www.cooperlighting.com** para conocer nuestros términos y condiciones.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P:770-486-4800
www.cooperlighting.com

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