architectural area lighting

CY1
ACCENT SCALE

CYPHER™

FEATURES

- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- Multiple Fascia Options and Finishes
- 4G Vibration Tested

ETL LISTED US (Intertek)

ida DARK SKY APPROVED 2016 — 3000K and warmer CCTs only

BUY AMERICAN SOLUTIONS — See Certification Specifications

IP66

DLC QPL LISTED

Cypher Small

CONTROL TECHNOLOGY

Bluetooth®   **DMX 512**   **pharos**

RELATED PRODUCTS

CY2   UCM2   UCB

SPECIFICATIONS

CONSTRUCTION

- Main housing shroud is made of fabricated 5052-H32 aluminum alloy
- Housing mounting interface has a stamped silicone gasket
- Luminaire housing is free of any visible heat fins, hardware or fasteners
- Bracketry and hardware is stainless steel
- Luminaire finish consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish
- Luminaire finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

LED/OPTICS

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Optical lenses is clear injection molded PMMA acrylic
- Optical array is recessed in order to shield each LED optic across the length of the aperture
- Optical array is sealed for IP66 rating
- Secondary lens is impact resistant 5/32" tempered glass

INSTALLATION

- JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box
- Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates

INSTALLATION (CONTINUED)

- Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Optional mounting arrangements utilize a die-cast mounting adaptor to allow for surface conduit and through branch wiring
- Housing is able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the housing shall be able to be removed for service by lifting the assembly up off the rear mounting plate and disconnecting the wiring plugs
- •Driver assembly is mounted to a prewired internal tray with quick disconnects for removal

ELECTRICAL

- Drivers are in direct contact with the die-cast aluminum housing across the entire surface area of the widest face for maximum thermal transfer
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of LED module and electronic components
- Drivers have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaires have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series
- Drivers are 0-10V dimming control with a dimming range of 100%-10%. Drivers are U.L. listed. All luminaires shall accept 120-277 volt input and have integral surge protection."Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
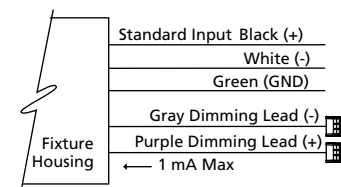
Fixture Housing
- Standard Input Black (+)
- White (-)
- Green (GND)
- Gray Dimming Lead (-)
- Purple Dimming Lead (+)
- ← 1 mA Max

ELECTRICAL (CONTINUED)

- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments
- Luminaire are capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

CONTROLS

- Button photocontrol for dusk to dawn energy savings
- •PC12 for 120V, PC20 for 208V, PC24 for 240V, PC27 for 277V
- Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others. Photocell adapter shall include an internal twist lock receptacle. Photocell by others

KEY DATA	
LUMEN RANGE	1,353–2,752
WATTAGE RANGE	17–26
EFFICACY RANGE (LPW)	75–116
WEIGHT	Refer to page 5

HUBBELL Lighting

CY1
ARCHITECTURAL AREA/SITE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: CY1-15-3K7-1-2D-UNV-BLS-F-RGBW-FPP-PCU-SF

CATALOG #

Series-Output (Base)		CCT-CRI		Model (Light Engine) [1]		Main Distribution (Down)		Secondary Distribution (Up, Sides)		Voltage	
CY1-15	15W, 1500 nominal lumens	27K8	2700K, 80CRI	1	DownLight Only	1	IES Type I	1	IES Type I	UNV	120-277V
CY1-25	25W, 2500 nominal lumens	3K7	3000K, 70CRI	2	50/50 Down/Up, Down/Up distributions must match	2	IES Type II	2	IES Type II		
		3K8	3000K, 80CRI	3	90/10 Down/Up	3	IES Type III	3	IES Type III		
		4K7	4000K, 70CRI	4	25/25/25/25 Spit, Down/Up/Side Distributions must match	4	IES Type IV	4	IES Type IV		
		4K8	4000K, 80CRI	5	70/10/10/10 Spit, Top/Side distributions must match	SP	15° Spot/Column	SP	15° Spot/Column		
		5K7	5000K, 70CRI			WG	60° Wall Graze	WG	60° Wall Graze		
						1D	Type 1 Diffused	PB [2]	Pencil Beam		
						2D	Type 2 Diffused	1D	Type 1 Diffused		
						3D	Type 3 Diffused	2D	Type 2 Diffused		
						4D	Type 4 Diffused	3D	Type 3 Diffused		
								4D	Type 4 Diffused		

Base Housing Finish		Fascia Form [1]		Luminous Front [4]		Fascia Panel [5]		Control Options		Options	
BLS	Black Gloss Smooth	F	Flat	Blank	Standard None	FPP	Full Panel Painted	PCU	Universal Button Photocell (120-277V)	EM [7]	Battery Backup Unit -20° C
BLT	Black Matte Textured	R	Radius/Curved	RGBW	RGBW Luminous Front	FPS	Full Panel Stainless Steel			SF	Single Fuse (120, 277)
DBS	Dark Bronze Gloss Smooth	T	Triangle/Wedge	LFSW	Static White Luminous Front	FPC	Full Panel Copper			DF	Double Fuse (208, 240)
DBT	Dark Bronze Matte Textured	E	Rounded/Edge			OPP [6]	Open Panel Painted			SCB	Surface Conduit Box
GTT	Graphite Matte Textured	C	Circle/Curved			OPS [6]	Open Panel Stainless Steel				
LGS	Light Gray Gloss Smooth	CB	Cylinder Balanced			OPC [6]	Open Panel Copper				
LGT	Light Gray Matte Textured	CT	Cylinder Tall			4PP [6]	4-Square Panel Painted				
PSS	Platinum Silver Gloss Smooth	CBM [8]	Custom Building Material Mount Ghost Fascia			4PS [6]	4-Square Panel Stainless Steel				
VGT	Verde Green Matte Textured					4PC	4-Square Panel Copper				
WHS	White Gloss Smooth					PPP	Perforated Panel Painted				
WHT	White Matte Textured					PPS	Perforated Panel Stainless Steel				
Color Options						PPC	Perforated Panel Copper				
CC [3]	Custom Color										

Notes:

1. Consult factory for custom distributions. See Distribution Matrix on page 4 restrictions

2. PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.

3. Consult factory for custom color, marine and corrosive finish

4. RGBW and LFSW luminous fronts are only available with open, four square and perforated fascia panels

5. Flat and Radius Fascia forms only. Painted panels by default match base housing finish/color. Consult factory for custom panel finishes.

6. Luminous front is required to select the Open Panel and 4-Square Panel fascia panels.

7. Battery Backup not available with Triangle and Rounded Edge Fascia Forms.

8. Custom Building Material Mount Ghost Fascia option allows the Cypher to blend seamlessly into the building architecture by matching the finish of the architectural background. See page 5 for dimensions and contact factory for additional information.

HUBBELL Lighting

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SPECIFICATIONS (CONTINUED)

CONTROL (CONTINUED)

- Each fixture comes equipment with a dual control driver that supports Bluetooth® operation of individual fixtures or DMX control of an entire system of fixtures.

Bluetooth®:

- Free Bluetooth® Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the Internet at Apple App Store or Google Play.

- Modular wiring harness in the service area provides user access to the dimming circuitry via DMX.

DMX:

- Fully DMX/RDM Compatible

- Utilizes 4 DMX Channels per fixture

DMX Map

- Start Address – Red

- Start Address +1 – Green

- Start Address +2 – Blue

- Start Address +3 – White

DMX Addressing is performed by using a compatible RDM handheld unit or via the Bluetooth® App.

- Performed by using a compatible RDM handheld unit or via the Bluetooth® App

DMX Wiring Color Code

- Red Wire – DMX +

- Brown Wire – DMX-

- Yellow Wire – Shield/Ground

- DMX termination must be achieved by adding a DMX terminator to the last fixture in a Daisy-Chain. Fixture does not auto terminate.

- Kim Lighting is proud to offer the Pharos Architectural Controls DMX Controllers and Touch screens. See Pharos Spec Sheet for more details.
  See the Pharos® Spec Sheet for more details.

Mobile App:

- Mobile App specification in additional information section.

- Mobile App. dimming range from 0% to 100% through the use of HUBBELL LIGHTING RGBW app (available on IOS and Android).

- Color selection and adjustment.

- Camera function for color matching.

- Intensity slider for dimming/ramping up.

- Save and rename up to 10 presets.

- Group and rename fixtures.

- Fixture is password protected, refer to instructions to set unique password.

CERTIFICATIONS

- Luminaire is listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250

- IP66 rated assembly

- IDA approved, 3000K and warmer CCTs only

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org

- ANSI C136.31-2010 4G Vibration tested and compliant

- Complies with "Americans with Disabilities Act" or "ADA" on select versions for low mounting height applications (fixtures extend maximum of 4 inches from wall for mounting heights of 80 inches or less)

- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. See Buy American Solutions

WARRANTY

- See HLI Standard Warranty for additional information

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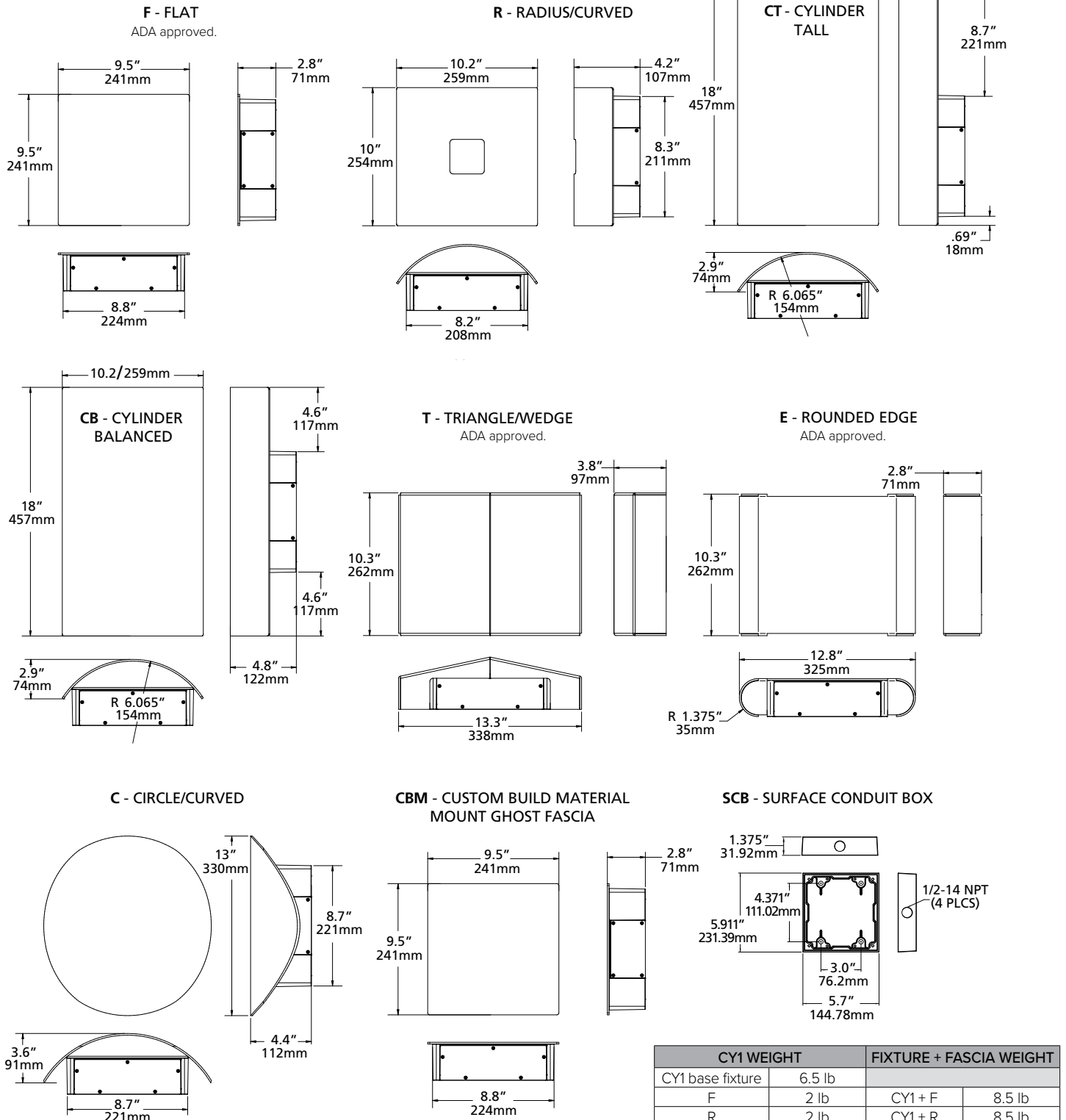
HUBBELL Lighting

CY1
ARCHITECTURAL AREA/SITE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DISTRIBUTION MATRIX

FASCIA FORM

DISTRIBUTION

	1 — Down Only	2 — 50 Down/50 Up	3 — 90 Down/10 Up	4 — 25/25/25/25 Split	5 — 70 Down 10/10/10 Split
Flat* F (top)		I, II, III, IV, SP, WG	SP/WG/PB	SP/WG SP/WG	SP/WG/PB
Flat* F (bottom)	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG	SP/WG/PB SP/WG/PB / I, II, III, IV, SP, WG
Radius Curve R (top)		SP/WG	SP/WG/PB	SP/WG SP/WG	SP/WG/PB
Radius Curve R (bottom)	SP/WG	SP/WG	SP/WG	SP/WG	SP/WG/PB SP/WG/PB / I, II, III, IV, SP, WG
Cylinder Balanced CB (top)		SP/WG	SP/WG/PB	SP/WG SP/WG	SP/WG/PB
Cylinder Balanced CB (bottom)	SP/WG	SP/WG	SP/WG	SP/WG	SP/WG/PB SP/WG/PB / SP/WG
Cylinder Tall CT (top)		SP/WG	SP/WG/PB	SP/WG SP/WG	SP/WG/PB
Cylinder Tall CT (bottom)	I, II, III, IV, SP, WG	SP/WG	I, II, III, IV, SP, WG	SP/WG	SP/WG/PB SP/WG/PB / I, II, III, IV, SP, WG
Triangle Wedge* T (top)		I, II, III, IV, SP, WG	SP/WG/PB		
Triangle Wedge* T (bottom)	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG		
Rounded Edge* E (top)		I, II, III, IV, SP, WG	SP/WG/PB		
Rounded Edge* E (bottom)	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG		
Circle/Curved C (top)		SP, WG	SP/WG/PB		
Circle/Curved C (bottom)	SP, WG	SP, WG	SP, WG		
Ghost CBM (top)		I, II, III, IV, SP, WG	SP/WG/PB	SP/WG SP/WG	SP/WG/PB
Ghost CBM (bottom)	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG	SP/WG/PB SP/WG/PB / I, II, III, IV, SP, WG

Window/Options

*   ADA compliant for use in low mounting height applications (80 inches or less)

2   Down/Up distributions must match

4   Down/Up/Side distributions must match

5   Top/Side distributions must match

Contact factory for custom distributions

Dimensions available on page 5

HUBBELL ® Lighting

architectural area lighting

CY1
ARCHITECTURAL AREA/SITE

DATE:
LOCATION:

TYPE:
PROJECT:

CATALOG #:

DIMENSIONS

F - FLAT
ADA approved.

9.5"
241mm

9.5"
241mm

2.8"
71mm

8.8"
224mm

R - RADIUS/CURVED

10.2"
259mm

4.2"
107mm

10"
254mm

8.3"
211mm

8.2"
208mm

CT - CYLINDER TALL

10.2"/259mm

8.7"
221mm

18"
457mm

2.9"
74mm

.69"
18mm

R 6.065"
154mm

CB - CYLINDER BALANCED

10.2/259mm

4.6"
117mm

18"
457mm

4.6"
117mm

2.9"
74mm

4.8"
122mm

R 6.065"
154mm

T - TRIANGLE/WEDGE
ADA approved.

3.8"
97mm

10.3"
262mm

13.3"
338mm

E - ROUNDED EDGE
ADA approved.

2.8"
71mm

10.3"
262mm

12.8"
325mm

R 1.375"
35mm

C - CIRCLE/CURVED

13"
330mm

8.7"
221mm

3.6"
91mm

4.4"
112mm

8.7"
221mm

CBM - CUSTOM BUILD MATERIAL MOUNT GHOST FASCIA

9.5"
241mm

2.8"
71mm

9.5"
241mm

8.8"
224mm

SCB - SURFACE CONDUIT BOX

1.375"
31.92mm

4.371"
111.02mm

5.911"
231.39mm

3.0"
76.2mm

5.7"
144.78mm

1/2-14 NPT
(4 PLCS)

CY1 WEIGHT		FIXTURE + FASCIA WEIGHT	
CY1 base fixture	6.5 lb		
F	2 lb	CY1 + F	8.5 lb
R	2 lb	CY1 + R	8.5 lb
CB	3 lb	CY1 + CB	9.5 lb
CT	3 lb	CY1 + CT	9.5 lb
T	3 lb	CY1 + T	9.5 lb
E	3 lb	CY1 + E	9.5 lb
C	2 lb	CY1 + C	8.5 lb

HUBBELL® Lighting

architectural area lighting

CY1
ARCHITECTURAL AREA/SITE

DELIVERED LUMENS

Nominal Output (Lm)	System Watts	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
			Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
				B	U	G			B	U	G			B	U	G	
1,500	17	Type 1	1825	0	0	0	107	1928	0	0	0	113	1923	0	0	0	113
		Type 2	1638	0	0	0	96	1730	0	0	0	102	1726	0	0	0	102
		Type 3	1661	0	0	1	98	1755	0	0	1	103	1750	0	0	1	100
		Type 4	1668	0	0	0	98	1762	0	0	0	104	1757	0	0	0	103
		Wall Graze	1871	1	0	0	110	1976	1	0	0	116	1971	1	0	0	114
		Spot/Column	1701	2	0	0	100	1797	2	0	0	106	1792	2	0	0	103
		Type 1 Diffused	1547	1	0	0	91	1634	1	0	0	96	1629	1	0	0	96
		Type 2 Diffused	1493	1	0	0	88	1577	1	0	0	93	1573	1	0	1	93
		Type 3 Diffused	1353	1	0	0	80	1429	1	0	0	84	1425	1	0	0	84
		Type 4 Diffused	1521	1	0	0	89	1607	1	0	0	95	1602	1	0	1	94
2,500	26	Type 1	2390	0	0	0	92	2524	0	0	0	97	2517	0	0	0	96
		Type 2	2120	1	0	1	82	2239	1	0	1	86	2233	1	0	1	85
		Type 3	2117	1	0	1	80	2236	1	0	1	85	2229	1	0	1	85
		Type 4	2201	1	0	1	85	2325	1	0	1	89	2319	1	0	1	88
		Wall Graze	2605	2	0	0	100	2752	2	0	0	106	2744	2	0	0	104
		Spot/Column	2346	2	0	0	90	2478	2	0	0	95	2471	2	0	0	94
		Type 1 Diffused	2225	1	0	1	86	2350	1	0	1	90	2344	1	0	1	89
		Type 2 Diffused	1958	1	0	1	75	2068	1	0	1	80	2062	1	0	1	79
		Type 3 Diffused	1946	1	0	1	75	2056	1	0	1	79	2050	1	0	1	78
		Type 4 Diffused	2016	1	0	1	78	2129	1	0	1	82	2123	1	0	1	80

ELECTRICAL CHARACTERISTICS

LUMEN PACKAGE	SYSTEM WATTAGE (W)	LINE VOLTAGE		INPUT				MIN. POWER FACTOR	MAX THD (%)	DIMMING RANGE	SOURCE/SINK CURRENT (MA)		ABSOLUTE VOLTAGE RANGE ON 0-10V (+) PURPLE	
		VAC	HZ	120	208	240	277				MIN.	MAX.	MIN.	MAX.
1,500	17	120	50/60	0.1			0.1	>0.9	20	10% to 100%	0 mA	1 mA	0V	10V
2,500	26			0.2			0.1							

TM-21 LIFETIME CALCULATION (500mA)

LUMEN PACKAGE	AMBIENT ENVIRONMENT °C	PROJECTED LUMEN MAINTENANCE (KHRS)					REPORTED L70
		15	25	50	60 (TM-21)	100	
2,500	25	98%	97%	94%	92%	87%	>60Khrs.
	40	95%	93%	89%	87%	80%	

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