

FEATURES

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



3000K and warmer CCTs only



CONTROL TECHNOLOGY



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

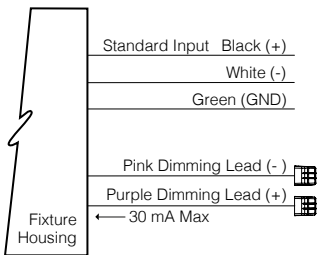
ELECTRICAL

- 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, thermistor 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

CYPHER™



Cypher 9"



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
- 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

continued on page 3

KEY DATA	
LUMEN RANGE	1,353–2,752
WATTAGE RANGE	17–26
EFFICACY RANGE (LPW)	75–116
WEIGHT	Refer to page 6

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) <sup>1</sup>	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 Split, 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 <sup>2</sup> 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 <sup>1</sup>	Luminous Front <sup>4</sup>	Fascia Panel <sup>5</sup>	Control Options	Options
BLS Black Gloss Smooth	F Flat	Blank Standard None	FPP Full Panel Painted	PCU Universal Button Photocell (120-277V)	EM <sup>7</sup> 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 <sup>6</sup> Open Panel Painted		SCB Surface Conduit Box
GTT Graphite Matte Textured	C Circle/Curved		OPS <sup>6</sup> Open Panel Stainless Steel		
LGS Light Gray Gloss Smooth	CB Cylinder Balanced		OPC <sup>6</sup> Open Panel Copper		
LGT Light Gray Matte Textured	CT Cylinder Tall		4PP <sup>6</sup> 4-Square Panel Painted		
PSS Platinum Silver Gloss Smooth	CBM <sup>8</sup> Custom Building Material Mount Ghost Fascia		4PS <sup>6</sup> 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 <sup>3</sup> 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 6 for dimensions and contact factory for additional information. Custom material provided by others.

**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 Current 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
- 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)
- Emergency battery back options are California Energy Commission (CEC) Title 20 Compliant

**WARRANTY**

- 5 year warranty











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DISTRIBUTION MATRIX

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FASCIA FORM	DISTRIBUTION				
	Down Only	50 Down/50 Up	90 Down/10 Up	25/25/25/25 Split	70 Down 10/10/10 Split
 Flat* F	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG SP/WG	SP/WG/PB I, II, III, IV, SP, WG
 Radius Curve R	SP/WG	SP/WG	SP/WG/PB SP/WG	SP/WG SP/WG	SP/WG/PB I, II, III, IV, SP, WG
 Cylinder Balanced CB	SP/WG	SP/WG	SP/WG/PB SP/WG	SP/WG SP/WG	SP/WG/PB SP/WG
 Cylinder Tall CT	I, II, III, IV, SP, WG	SP/WG	SP/WG/PB I, II, III, IV, SP, WG	SP/WG SP/WG	SP/WG/PB I, II, III, IV, SP, WG
 Triangle Wedge* T	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG/PB I, II, III, IV, SP, WG		
 Rounded Edge* E	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG/PB I, II, III, IV, SP, WG		
 Circle/Curved C	SP, WG	SP, WG	SP/WG/PB SP, WG		
 Ghost CBM	I, II, III, IV, SP, WG	I, II, III, IV, SP, WG	SP/WG/PB I, II, III, IV, SP, WG	SP/WG SP/WG	SP/WG/PB I, II, III, IV, SP, WG

\* 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

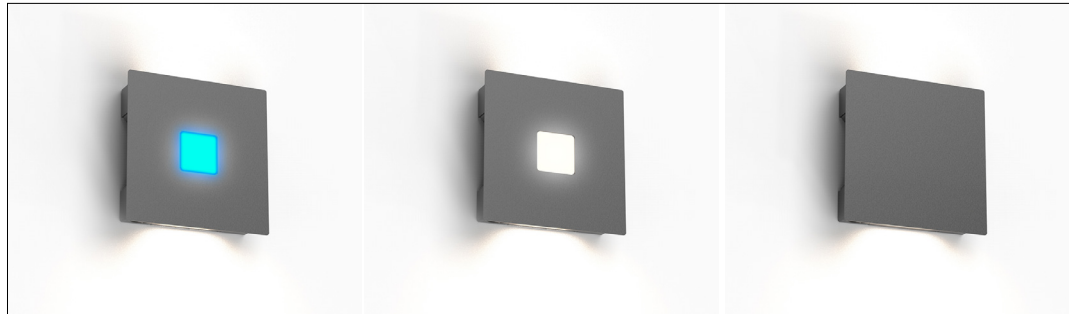
5 Top/Side distributions must match

Contact factory for custom distributions

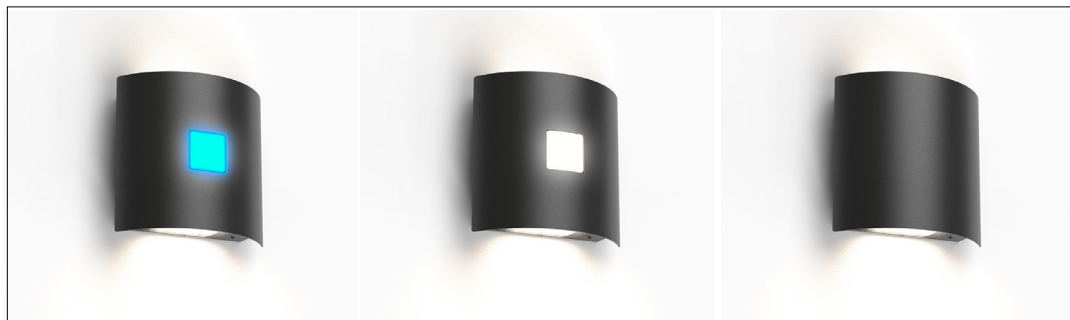
Dimensions available on page 5

**FASCIA**

**FLAT**



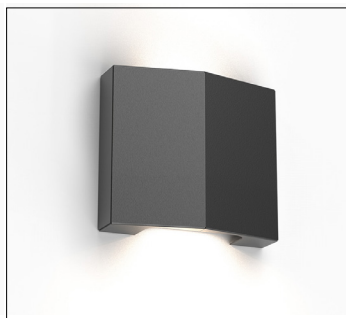
**CURVE**



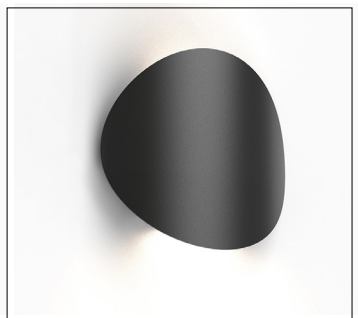
**ROUNDED EDGE**



**TRIANGLE**



**CIRCLE**



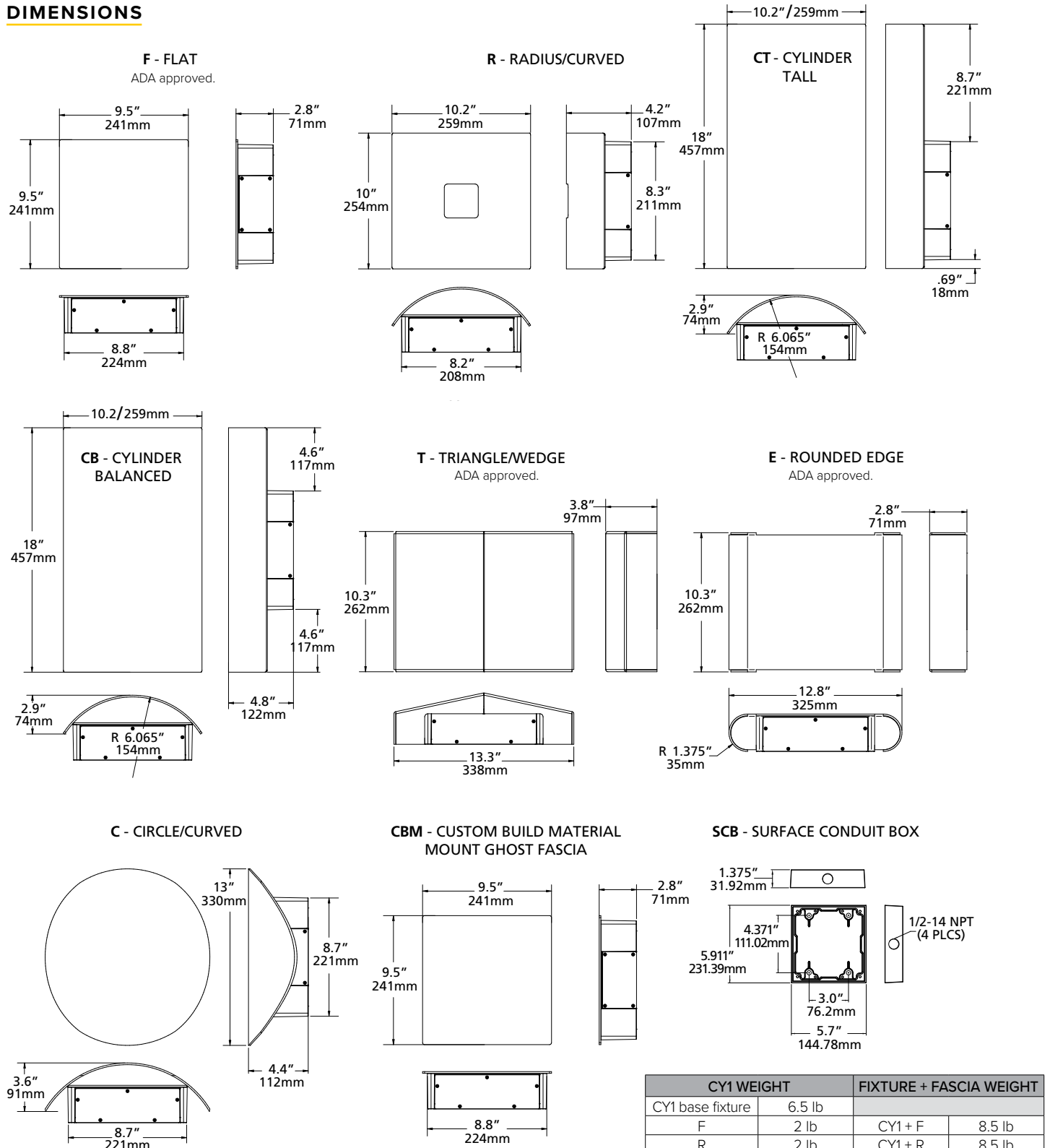
**CYLINDER TALL**



**CYLINDER BALANCED**



**DIMENSIONS**



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

DELIVERED LUMENS

Nominal Output (Lm)	System Watts	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
			Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (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
2,500	26	Type 4 Diffused	1521	1	0	0	89	1607	1	0	0	95	1602	1	0	1	94
		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 (A)				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	120-277	50/60	0.14	0.08	0.07	0.06	>0.9	20	10% to 100%	0 mA	1 mA	0V	10V
2,500	26			0.22	0.13	0.11	0.09							

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%	