

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CYPHER™

FEATURES

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













Cypher Small

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

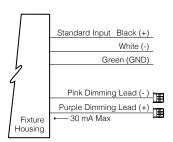
- JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box
- Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates

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, 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



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

continued on page 3

KEY DATA				
LUMEN RANGE	1,906-5,083			
WATTAGE RANGE	26–52			
EFFICACY RANGE (LPW)	67–109			
WEIGHT	Refer to page 5			





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ORDERING GUIDE

			Example: CY2-35-3K7-1-2D-UNV-BLS	S-F-RGBW-FPP-PCU-SF
CATALOG #				

Series-Output (Base)	CCT-CRI N	Model (Light Engine) ¹	Main Distribution (Down)	Secondary Distribution (Up, Sides)	Voltage
CY2-25 25W, 2500 nominal lumens CY2-35 40W, 3500 nominal lumens CY2-45 50W, 4500 nominal lumens	27K8 2700K, 80CRI 1 3K7 3000K, 70CRI 2 3K8 3000K, 80CRI 4K7 4000K, 70CRI 4 4K8 4000K, 80CRI 5 5K7 5000K, 70CRI 4		1 IES Type I 2 IES Type II 3 IES Type III 4 IES Type IV 5P 15° Spot/Column WG 60° Wall Graze 1D Type 1 Diffused 2D Type 2 Diffused 3D Type 3 Diffused 4D Type 4 Diffused	1 IES Type I 2 IES Type II 3 IES Type III 4 IES Type IV 5P 15° Spot/Column WG 60° Wall Graze PB Pencil Beam ² 1D Type 1 Diffused 2D Type 2 Diffused 3D Type 3 Diffused 4D Type 4 Diffused	UNV 120-277V 347 347V 480 480V

Base	Housing Finish	Fascia	a Form ¹	Lumino	ous Front 4	Fasci	a Panel ⁵	Control	Options ⁶	Optio	ons
BLS	Black Gloss Smooth	F	Flat	Blank	Standard None	FPP	Full Panel Painted	PCU	Universal Button	EM	Battery Backup
BLT	Black Matte Textured	R	Radius/Curved	RGBW		FPS	Full Panel Stainless Steel		Photocell (120-277V)		Unit -20° C 8
DBS	Dark Bronze Gloss Smooth	Т	Triangle/Wedge		Front	FPC	Full Panel Copper	SCP	,	SF	Single Fuse
DBT	Dark Bronze Matte Textured	E	Rounded/Edge	LFSW	Static White	OPP	Open Panel Painted 7	SCP	Programmable Occupancy Sensor	DF	(120, 277, 347)
GTT	Graphite Matte Textured	С	Circle/Curved		Luminous Front	OPS	Open Panel Stainless Steel 7	WIR	wiSCAPE	DF	Double Fuse (208, 240, 480)
LGS	Light Gray Gloss Smooth	СВ	Cylinder Balanced			OPC	Open Panel Copper 7	WiRC	wiSCAPE w/	SCB	Surface
LGT	Light Gray Matte Textured	СТ	Cylinder Tall			4PP	4-Square Panel Painted 7		Occupancy Sensor		Conduit Box
PSS	Platinum Silver Gloss Smooth	СВМ	Custom Building Material			4PS	4-Square Panel Stainless Steel ⁷				
VGT	Verde Green Matte Textured		Mount Ghost Fascia 9			4PC	4-Square Panel Copper 7				
WHS	White Gloss Smooth					PPP	Perforated Panel Painted 7				
WHT	White Matte Textured					PPS	Perforated Panel Stainless Steel				
Color	Options					PPC	Perforated Panel Copper				
СС	Custom Color ³										

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 Occupancy sensors not available with CB, T, E or C fascia forms
- 7 Luminous front is required to select the Open Panel and 4-Square Panel fascia panels.
- 8 Consult factory for information on specific configurations with different fascia forms.
- 9 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.





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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
- 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

WARRANTY

5 year warranty



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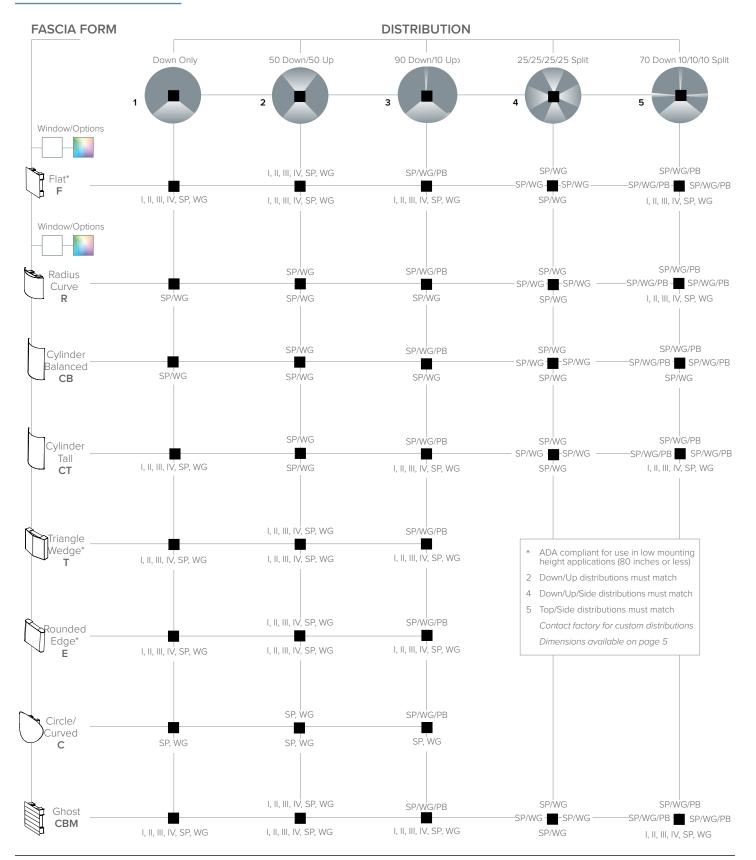






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DISTRIBUTION MATRIX





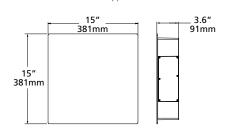
DATE: LOCATION:

TYPE: PROJECT:

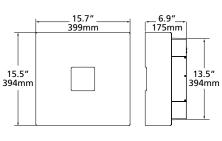
CATALOG #:

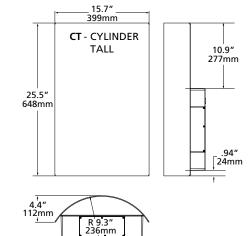
DIMENSIONS





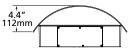


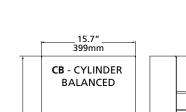




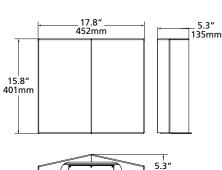


25.5" 648mm



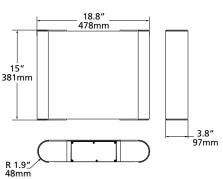


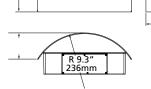
T - TRIANGLE/WEDGE

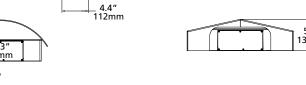


E - ROUNDED EDGE

ADA approved.







13.6" 345mm

5.7" 145mm

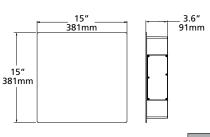
6" 152mm

6" 152mm

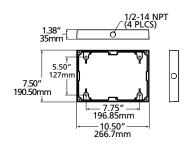
C - CIRCLE/CURVED

20" 508mm

CBM - CUSTOM BUILD MATERIAL MOUNT GHOST FASCIA



SCB - SURFACE CONDUIT BOX



4.8"		
122mm	R 13.7" 333mm	
	13.7" _ 348mm	

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	_	13.7" 348mm	

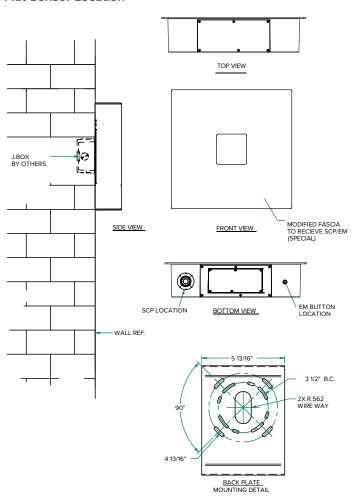
CY2 WE	IGHT	FIXTURE + FA	SCIA WEIGHT
CY2 base fixture	20 lb		
F	2.5 lb	CY2 + F	22.5 lb
R	2.5 lb	CY2 + R	22.5 lb
СВ	3.5 lb	CY2 + CB	23.5 lb
CT	3.5 lb	CY2 + CT	23.5 lb
T	3.5 lb	CY2 + T	23.5 lb
Е	3.5 lb	CY2 + E	23.5 lb
С	2.5 lb	CY2 + C	22.5 lb

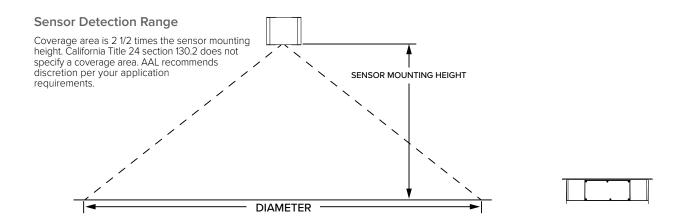


DATE:	LOCATION:
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DIMENSIONS (CONTINUED)

Flat Sensor Location









DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS

Nominal			3000K 70CRI					4000K 70CRI					5000K 70CRI				
Output (Lm)	System Watts	Distribution		Bug Rating		Efficancy		Bug Rating			Efficancy		Bug Rating		ing	Efficancy	
			Lumen	В	U	G	(Lm/W)	Lumen	umen B	U	G	(Lm/W)	Lumen	В	U	G	(Lm/W)
		Type 1	2499	0	0	0	96	2596	0	0	0	100	2836	0	0	0	109
		Type 2	2265	1	0	1	87	2353	1	0	1	90	2570	1	0	1	99
		Type 3	2413	1	0	1	93	2507	1	0	1	96	2739	1	0	1	107
		Type 4	2213	0	0	1	85	2299	0	0	1	88	2512	0	0	1	97
2,500	26	Wall Graze	2462	2	0	0	95	2558	2	0	0	98	2795	2	0	0	107
2,500	26	Spot/Column	2089	2	0	0	80	2171	2	0	0	83	2371	2	0	0	91
		Type 1 Diffused	2193	1	0	1	84	2278	1	0	1	88	2488	1	0	1	96
		Type 2 Diffused	2004	1	0	1	77	2082	1	0	1	80	2274	1	0	1	87
		Type 3 Diffused	1906	1	0	1	73	1980	1	0	1	76	2163	1	0	1	83
		Type 4 Diffused	1936	1	0	1	74	2011	1	0	1	77	2197	1	0	1	84
		Type 1	3534	1	0	0	88	3672	1	0	0	92	4011	88	1	0	100
	40	Type 2	3203	1	0	0	80	3328	1	0	1	83	3635	80	1	0	91
		Type 3	3413	1	0	1	85	3546	1	0	1	89	3874	85	1	0	97
		Type 4	3131	1	0	1	78	3252	1	0	1	81	3553	78	1	0	89
3.500		Wall Graze	3483	2	0	0	87	3618	2	0	0	90	3953	87	2	0	99
3,500		Spot/Column	2955	3	0	0	74	3070	3	0	0	77	3354	74	3	0	84
		Type 1 Diffused	3101	1	0	1	78	3222	1	0	1	81	3519	78	1	0	88
		Type 2 Diffused	2835	1	0	1	71	2945	1	0	1	74	3217	71	1	0	80
		Type 3 Diffused	2695	1	0	1	67	2800	1	0	1	70	3059	67	1	0	76
		Type 4 Diffused	2738	1	0	1	68	2844	1	0	1	71	3107	68	1	0	78
		Type 1	4390	1	0	0	84	4561	1	0	0	88	4982	1	0	1	97
	52	Type 2	4119	1	0	1	79	4280	1	0	1	82	4675	1	0	1	90
		Type 3	4240	1	0	1	82	4405	1	0	1	86	4812	1	0	1	95
		Type 4	4026	1	0	1	77	4183	1	0	1	80	4569	1	0	1	88
4500		Wall Graze	4479	3	0	0	86	4653	3	0	0	89	5083	3	0	0	99
4,500		Spot/Column	3800	3	0	0	73	3948	3	0	0	76	4313	3	0	0	84
		Type 1 Diffused	3988	1	0	1	77	4143	1	0	1	80	4526	2	0	1	88
		Type 2 Diffused	3645	1	0	1	70	3787	1	0	1	73	4137	1	0	1	80
		Type 3 Diffused	3466	1	0	1	67	3601	1	0	1	69	3934	1	0	1	76
		Type 4 Diffused	3521	1	0	1	68	3658	1	0	1	70	3996	1	0	1	77

ELECTRICAL CHARACTERISTICS

LUMEN PACKAGE	SYSTEM WATTAGE	LINE VO	OLTAGE		IN	PUT		MIN. POWER	MAX THD (%)	DIMMING RANGE		OURCE/SINK CURRENT (MA)		E VOLTAGE N 0-10V (+) RPLE
TACKAGE	(W)	VAC	HZ	120	277	347	480	FACTOR	1110 (70)	ICAITOL	MIN.	MAX.	MIN.	MAX.
2,500	26			0.2	0.1	0.1 0.1								
3,500	40	120	50/60	0.3	0.1	0.1	0.1	>0.9	20	10% to 100%	0 mA	1 mA	OV	10V
4,500	52			0.4	0.2	0.1	0.1							

TM-21 LIFETIME CALCULATION (500mA)

LUMEN	AMBIENT ENVIRONMENT	PROJI	ECTED	REPORTED			
PACKAGE	°C	15	25	50	60 (TM-21)	100	L70
4 500	25	95%	94%	90%	89%	83%	>60Khrs.
4,500	40	93%	91%	84%	82%	73%	>60KIIIS.

