

UBIK CUBE

RECESSED

STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

DESCRIPTION

Sleek square form meets superb function in Ubik, a lighting family designed to provide a multitude of creative options. The Ubik Cube Recessed linear downlight is available in three lengths to address anything from minor accent lighting to a major wall wash. These compact 2" wide recessed fixtures are offered with HLO and parabolic louver and wall wash optics for direct illumination.



Up to 137 lm/W performance

OPTICS

Parabolic Louver



Matte White

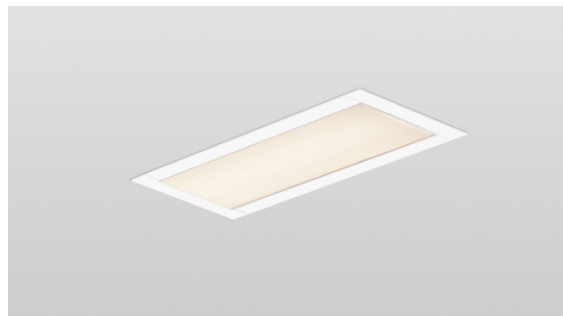


Matte Silver



Matte Black

High-Efficiency Lambertian Optic



Wall Wash Optic



Matte White



Matte Silver



Matte Black

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MOUNTING

Consult pages 4-5 for details before specifying

Mounting and light engine can be ordered separately.

LUMINAIRE ID	INSTALLATION TYPE	MOUNTING OPTION	TRIM TYPE	LIGHT SOURCE ⁴
UBICUBR6 - Ubik Cube Recessed 6" UBICUBR12 - Ubik Cube Recessed 12" UBICUBR18 - Ubik Cube Recessed 18"	OF - Open frame new construction IC - IC rated new construction CP - Chicago Plenum (CCEA) MW - Millwork RM - Remodel	ACB ¹ - Adjustable commercial bar hangers (grid and drywall) ASB ¹ - Adjustable standard bar hangers (grid and drywall) FMB ¹ - Flush mount bars (drywall only) AHC ¹ - Adjustable hat channel bars MWF ² - Millwork frame (direct mount plate without bars) ¹ Not available with millwork installation type. ² Only available with millwork installation type. NA - Not applicable	TRM - Trim TRL ³ - Trimless DMF - Drywall mud flange ³ Not available for remodel or grid ceiling.	SW - Static white BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting ⁴ Chromawerx Sola and Duo also available. Consult other spec sheet.

OPTIC	CRI	COLOR TEMP	VOLTAGE	LUMEN PACKAGE	INTEGRAL DRIVER
MWPL - Matte White Parabolic Louver MSPL - Matte Silver Parabolic Louver MBPL - Matte Black Parabolic Louver HLO - High-Efficiency Lambertian Optic WWW - Wall Wash White Optic WWS - Wall Wash Silver Optic WWB - Wall Wash Black Optic	80 - 80CRI 90 ⁵ - 90CRI ⁵ Not available with BIOS.	27 ⁶ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K ⁶ Not available with BIOS.	120 - 120V 277 - 277V	Parabolic Louvers SW 800 lm 1600 lm 2400 lm BIOS 500 lm 1000 lm 1500 lm	HLO and Wall Wash SW 600 lm 1200 lm 1800 lm BIOS 350 lm 500 lm 700 lm D1 - 1% 0-10V ELV ⁷ - ELV 120V TRI ⁷ - TRIAC 120V DA ⁸ - DALI LDE1 ⁸ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ⁷ Available with 120V only. ⁸ On-site commissioning is required.
			INTEGRAL DRIVER		
			REMOTE DRIVER		
FOR FULL REMOTE DRIVER SPECIFICATION, SEE "REMOTE DRIVER" SECTION ON THE FOLLOWING PAGE.					

LIGHT ENGINE

Consult pages 4-5 for details before specifying

Mounting and light engine can be ordered separately.

LUMINAIRE ID	LIGHT SOURCE ⁴	OPTIC	CRI	COLOR TEMP	TRIM TYPE	TRIM FINISH
UBICUBRL6 - Ubik Cube Recessed 6" UBICUBRL12 - Ubik Cube Recessed 12" UBICUBRL18 - Ubik Cube Recessed 18"	SW - Static white BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting ⁴ Chromawerx Sola and Duo also available. Consult other spec sheet.	MWPL - Matte White Parabolic Louver MSPL - Matte Silver Parabolic Louver MBPL - Matte Black Parabolic Louver HLO - High-Efficiency Lambertian Optic WWW - Wall Wash White Optic WWS - Wall Wash Silver Optic WWB - Wall Wash Black Optic	80 - 80CRI 90 ⁵ - 90CRI ⁵ Not available with BIOS.	27 ⁶ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K ⁶ Not available with BIOS.	TRM - Trim TRL ³ - Trimless DMF - Drywall mud flange ³ Not available for remodel or grid ceiling.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#

ORDERING CODE

Ubik Cube components can be ordered and shipped separately. Use these codes when specifying as separate lines.

MOUNTING CODE	_____	_____
LIGHT ENGINE CODE	_____	_____
REMOTE DRIVER CODE	_____	_____

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REMOTE DRIVER SPECIFICATION

Consult page 6 for details before specifying

Continue here for full remote driver specifications. Remote driver can be ordered separately.

REMOTE DRIVER ID	LUMINAIRE QTY	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGE			REMOTE DRIVER ^{10, 11, 12, 13}	
RDB# - Remote driver box If multiple driver boxes are needed, please specify a line number for each driver type used.	#X - Number of luminaires Please specify number of luminaires per remote driver. (e.g. 3X) For the minimum and maximum number of lighting units per driver, refer to the table on page 6.	UBICUBR6 - Ubik Cube Recessed 6" UBICUBR12 - Ubik Cube Recessed 12" UBICUBR18 - Ubik Cube Recessed 18"	120 - 120V 277 - 277V	Eco Low Medium ⁹ High ⁹ Ultra High ⁹	E250 lm L375 lm M500 lm H600 lm UH700 lm	E500 lm L750 lm M1000 lm H1200 lm UH1400 lm	E750 lm L1125 lm M1500 lm H1800 lm UH2100 lm	RD1 - 1% 0-10V RELV ¹² - ELV 120V RTRI ¹² - TRIAC 120V RDA ¹³ - DALI RLDE1 ¹³ - Lutron Hi-lume 1% Eco RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V ¹⁰ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹¹ For configurations with different Ubik Cube sizes on a remote driver, please consult factory. ¹² Available with 120V only. ¹³ On-site commissioning is required.

ORDERING CODE

Ubik Cube components can be ordered and shipped separately. Use these codes when specifying as separate lines.

<u>MOUNTING CODE</u>	_____	_____
<u>LIGHT ENGINE CODE</u>	_____	_____
<u>REMOTE DRIVER CODE</u>	_____	_____

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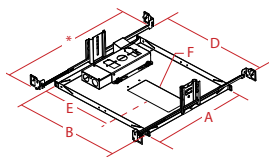
MOUNTING

Ubik Cube can be installed in a wide range of ceiling conditions and with various ceiling trim options. Spring clips clamp the lighting engine to the mounting frame (or directly to the ceiling for remodel). Maximum ceiling thickness is 1.25".

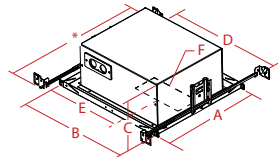
INSTALLATION TYPE

	A HOUSING WIDTH	B HOUSING LENGTH	C HOUSING HEIGHT	D SPACING BETWEEN BARS	E DISTANCE FROM CUT-OUT	F CUT-OUT DIMENSIONS		G MUDPLATE DIMENSIONS
						TRIM / DRYWALL MUD FLANGE	TRIMLESS	
UBICUBR6	13"	14"	5 3/8"	14 13/16"	9 13/64"	2 29/32" x 6 19/32"	2 3/4" x 6 1/2"	5 5/16" x 9 3/32"
UBICUBR12	13"	15 1/2"	5 3/8"	16 1/4"	7 3/4"	2 29/32" x 12 19/32"	2 3/4" x 12 1/2"	5 5/16" x 15 1/16"
UBICUBR18	11 13/32"	21 19/32"	5 3/8"	22 5/16"	10 25/32"	2 29/32" x 18 19/32"	2 3/4" x 18 1/2"	5 5/16" x 21 1/16"

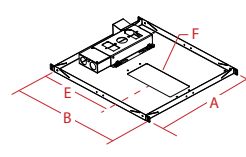
* For detailed mounting option dimensions, see page 5. Drawings shown with adjustable standard bar hangers.



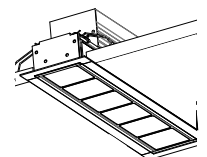
OF
Open Frame



IC or CP
Type-IC/ Chicago Plenum

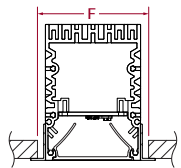


MW
Millwork

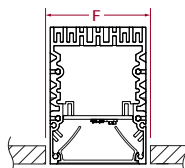


RM
Remodel

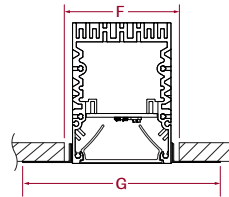
TRIM TYPE



TRM
Trim



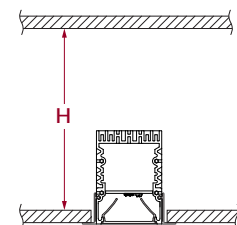
TRL
Trimless



DMF
Drywall Mud Flange

PLENUM CLEARANCE DIMENSIONS

	H PLENUM CLEARANCE HEIGHT	
	OPEN FRAME / MILLWORK / REMODEL	TYPE IC / CHICAGO PLENUM
UBICUBR6	6"	5 1/2"
UBICUBR12	4"	5 1/2"
UBICUBR18	4"	5 1/2"



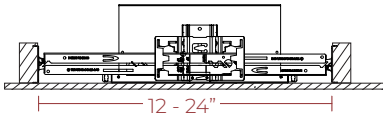
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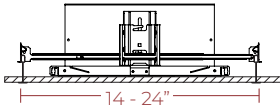
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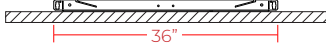
MOUNTING OPTIONS



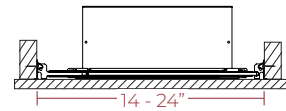
ACB - Adjustable commercial bar hangers
Grid ceiling, drywall, metal, wood, frame mounting
(also openings for multiple hanging options such as hat channel, IC channel and metal tubing, supplied by others)



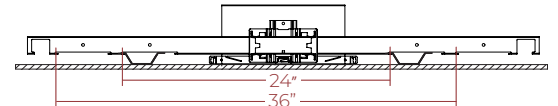
ASB - Adjustable standard bar hangers
Grid ceiling or drywall with variable height (commercial applications)



MWF - Direct mount plate without bars for millwork ceilings



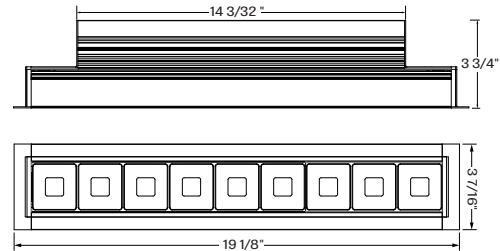
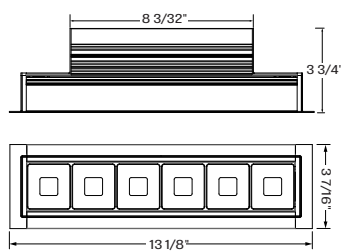
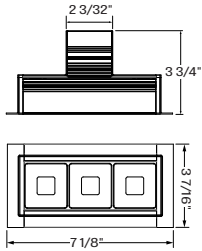
FMB - Flush mount bracket
Drywall/metal/wood frame mounting
(residential applications)



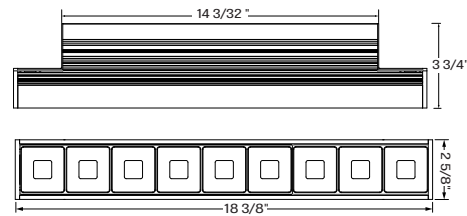
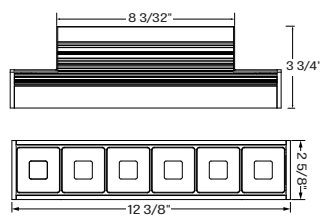
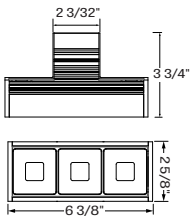
AHC - Adjustable hat channel bars
With adjustable height

FIXTURE DIMENSIONS

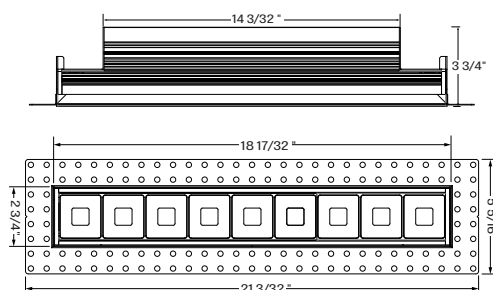
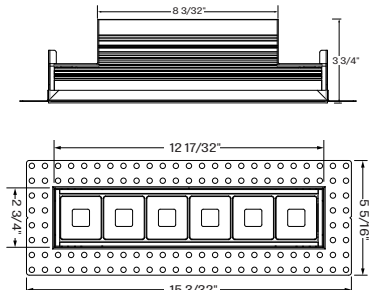
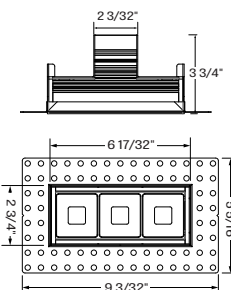
TRM - TRIM



TRL - TRIMLESS



DMF - DRYWALL MUD FLANGE



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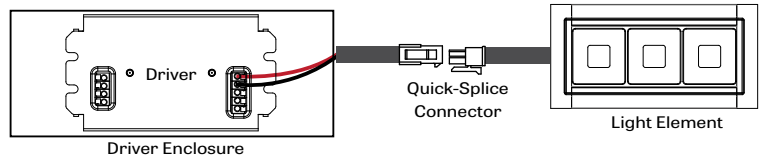
STATIC WHITE, BIOS ST/DY

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DRIVER

INTEGRAL DRIVER

The integral driver is sized to the lighting unit and is connected directly to it with Class 2 wiring and quick-splice connectors. The driver enclosure can be serviced through the ceiling by removing the lighting unit.



VOLTAGE	LUMEN PACKAGE		INTEGRAL DRIVER			
120 - 120V 277 - 277V	Parabolic Louvers		HLO and Wall Wash			D1 - 1% 0-10V ELV ¹ - ELV 120V TRI ¹ - TRIAC 120V DA ² - DALI LDE1 ² - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V
	6"	SW 800 lm	BIOS 500 lm	SW 600 lm	BIOS 350 lm	
	12"	1600 lm	1000 lm	1200 lm	500 lm	
	18"	2400 lm	1500 lm	1800 lm	700 lm	

¹ Available with 120V only.
² On-site commissioning is required.

REMOTE DRIVER

The remote driver can power several lighting units, depending on their total power. The minimum and maximum number of lighting units and driver type are shown in the table below and must be observed. The remote driver and lighting units are wired together through connection boxes, which are furnished pre-wired to the driver enclosure. All wiring is Class 2 with quick-splice connectors. The remote driver requires access from above the ceiling (or an access panel).

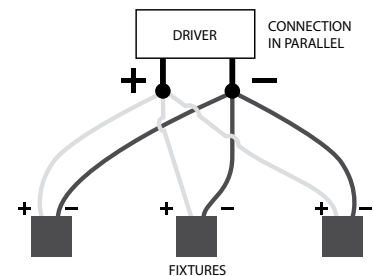
REMOTE DRIVER ID	LUMINAIRE QTY	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGE				REMOTE DRIVER ^{2,3}		
RDB# - Remote driver box If multiple driver boxes are needed, please specify a line number for each driver type used.	#X - Number of luminaires Please specify number of luminaires per remote driver. (e.g. 3X) For the minimum and maximum number of lighting units per driver, refer to the table on page 6.	UBICUBR6 - Ubik Cube Recessed 6" UBICUBR12 - Ubik Cube Recessed 12" UBICUBR18 - Ubik Cube Recessed 18"	120 - 120V 277 - 277V	Eco	6" E250 lm	12" E500 lm	18" E750 lm	RD1 - 1% 0-10V RELV ⁴ - ELV 120V RTRI ⁴ - TRIAC 120V RDA ⁵ - DALI RLDE1 ⁵ - Lutron Hi-lume 1% Eco RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V		
				Low	L375 lm	L750 lm	L1125 lm			
				Medium ¹	M500 lm	M1000 lm	M1500 lm			
				High ¹	H600 lm	H1200 lm	H1800 lm			
				Ultra High ¹	UH700 lm	UH1400 lm	UH2100 lm			

¹ Not available with BIOS.
² PoE (Power-over-Ethernet) compatible. Consult factory for details.
³ For configurations with different Ubik Cube sizes on a remote driver, please consult factory.
⁴ Available with 120V only.
⁵ On-site commissioning is required.

NUMBER OF LIGHTING UNITS PER DRIVER - MINIMUM AND MAXIMUM

Based on 1200lm/ft, matte white finish for wall wash optic and parabolic louvers. Range may differ based on lumen package and louver finish.

DRIVER TYPE	UBICUBR6			UBICUBR12			UBICUBR18		
	WW	PAR	HLO	WW	PAR	HLO	WW	PAR	HLO
RD1 - 1% 0-10V	1-11	1-11	2-15	1-5	1-8	1-7	1-3	1-5	1-5
RELV - ELV 120V	2-6	2-8	2-6	1-3	1-4	1-3	1-2	1-2	1-2
RTRI - TRIAC 120V	2-6	2-8	2-6	1-3	1-4	1-3	1-2	1-2	1-2
RDA - DALI	1-10	1-10	2-14	1-5	1-7	1-4	1-3	1-4	1-4
RLDE1 - Lutron Hi-lume 1% Eco	1-10	1-10	2-14	1-5	1-7	1-7	1-3	1-4	1-4
RELD1 - eldoLED 1% ECOdrive 0-10V	1-10	1-10	2-14	1-5	1-7	1-4	1-3	1-4	1-4
RELD0 - eldoLED 0.1% SOLOdrive 0-10V	1-10	1-10	2-14	1-5	1-7	1-4	1-3	1-4	1-4



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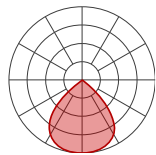
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Type: _____

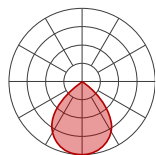
Photometrics

Watts and lumens per watt may vary based on the type of driver selected, as well as on the number of lighting units per driver for the remote driver option.



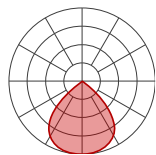
MWPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	5.8	137
UBICUB12	1600	11.7	137
UBICUB18	2400	17.5	137



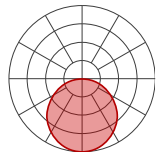
MSPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	6.4	125
UBICUB12	1600	12.8	125
UBICUB18	2400	19.2	125



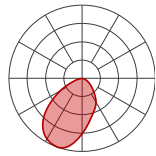
MBPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	7.3	109
UBICUB12	1600	14.7	109
UBICUB18	2400	22.0	109



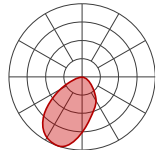
HLO - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	6.9	86.6
UBICUB12	1200	10.8	110.7
UBICUB18	1800	15.5	116.2



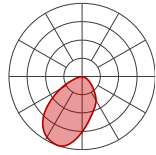
WWW - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	7.7	78.4
UBICUB12	1200	14.3	83.7
UBICUB18	1800	20.5	87.8



WWS - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	8.0	74.6
UBICUB12	1200	15.1	79.6
UBICUB18	1800	21.5	83.6



WWB - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	9.1	65.9
UBICUB12	1200	17.1	70.3
UBICUB18	1800	24.4	73.8

Multiplier - CCT/CRI - MWPL/MSPL/MBPL

CCT (K)	Watts Multiplier		LPW Multiplier	
	CRI80	CRI90	CRI80	CRI90
2700	1.04	1.19	0.96	0.84
3000	1	1.15	1	0.87
3500	1	1.12	1	0.89
4000	0.99	1.10	1.01	0.91

Multiplier - CCT/CRI - HLO/WWW/WWS/WWB

CCT (K)	Watts Multiplier		LPW Multiplier	
	CRI80	CRI90	CRI80	CRI90
2700	1.05	1.27	0.95	0.79
3000	1.02	1.23	0.98	0.81
3500	1	1.19	1	0.84
4000	1	1.19	1	0.84

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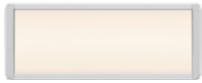
Type: _____

Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Ubik is installed in a high ceiling application.



Wall Wash Optics

Ubik wall wash is an offset horizontal linear LED array that reflects from a matte white internal side kicking reflector. It then transmits through the beam-forming lens and then softened by a 2" asymmetric louver. The lens is fully illuminated, and the wall wash is only slightly angled to complement the direct optic.



Parabolic Louvers

Parabolic louvers provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and is 2"x2" in size. The LED array is secured in the direct position, with the light transmitting through a beam-forming lens creating a conical distribution. Three matte (MPL) finishes are available in black, white and silver, offering a soft appearance, a wide beam spread of up 85-91 degrees, gentle brightness transition at cut-off, and exceptional UGR.



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Project: _____

Type: _____

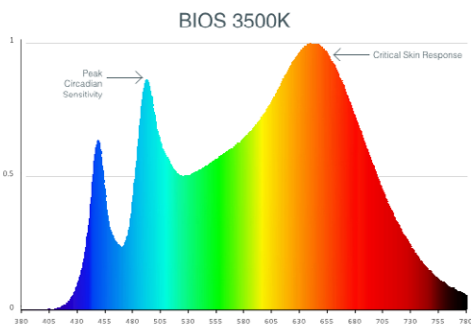
LIGHT SOURCE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K, and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS LED is selected
- Feature 55 or L04 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.

ELECTRICAL

Factory-set, adjustable output current LED driver with 120 or 277V AC input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include ELV, TRI, Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

UBIK CUBE

RECESSED

STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in standard white, aluminum, or black. Custom colors are also available.

CONSTRUCTION

Housing - Extruded aluminum (0.070" nominal) up to 90% recycled content

Housing cover - Cold rolled steel 18 gauge thick

Louvers - Injection molded optical grade polycarbonate up to 95% reflective

HLO lens - Coextruded PMMA

Parabolic heatsink - Extruded aluminum (0.10" nominal) up to 90% recycled content

HLO/WW heatsink - Aluminum sheet 10 gauge thick

End plate - Aluminum sheet 0.19" thick

Mounting clips - Ø 1.0-1.4mm spring clips

Driver housing - 18 gauge galvanized sheet

Mounting frame - 22 gauge galvanized sheet metal

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

Chicago Plenum - City of Chicago approved (CCEA)

IC rated - Suitable for direct contact with insulation

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

WEIGHT

		BODY		OPEN FRAME / MILLWORK		TYPE IC / CHICAGO PLENUM	
		LBS	KG	LBS	KG	LBS	KG
UBICUBR6	TRL/DMF	1.39	0.63	3.26	1.48	7.66	3.47
	TRM	1.63	0.74				
UBICUBR12	TRL/DMF	2.82	1.28	3.3	1.5	8.04	3.65
	TRM	3.15	1.43				
UBICUBR18	TRL/DMF	4.23	1.92	3.63	1.65	9.24	4.19
	TRM	4.64	2.10				