



2" LED Open Downlight

D2LED OPEN

120/277V

DATE: _____ TYPE: _____

FIRM NAME: _____

PROJECT: _____

Architektür



Ceiling Cutout: 2 7/8"
Ceiling Thickness 1/2"-1 1/4"
Not to Scale

APPLICATIONS:

Architektür D2LED Series is a 2" specification grade LED downlight that combines superior brightness control with energy savings and low maintenance costs. Suitable for a variety of commercial, retail, and institutional applications with ambient temperatures up to 35°C (9L) or 25°C (12L, 15L) during operation with free airflow around the fixture.

J-TUBE ASSEMBLY:

Utilizing Prescolite's revolutionary J-Tube design and optimal thermal management, the D2LED eliminates the need for a traditional downlight housing. The J-Tube assembly combines the traditional J-Box and driver electronics into a compact form that can be installed and accessed from below the ceiling plane.

REFLECTOR:

High purity spun aluminum self-flanged reflector with iridescence suppressed Alzak anodized finishes. Also available with Prescolite's American Matte™ (MFC) or Kurt Versen finishes. Painted reflectors are also available. Factory configurable optics provide 25°, 35°, or 45° optical distribution options for a variety of applications.

LED LIGHT ENGINE:

Xicato LED Module has a fixture to fixture color consistency of less than 2 SDCM. Secured to an extruded aluminum heat sink for excellent thermal management providing optimal life and lumen maintenance (minimum 50,000 hours at 70% lumen maintenance).

LED DRIVER:

Energy efficient electronic constant current driver with 50,000 hour minimum anticipated life. Meets UL Class 2, FCC 47CFR Part 15, Class B compliant, inherent short-circuit protection, self limited, overload protected.

DIMMING:

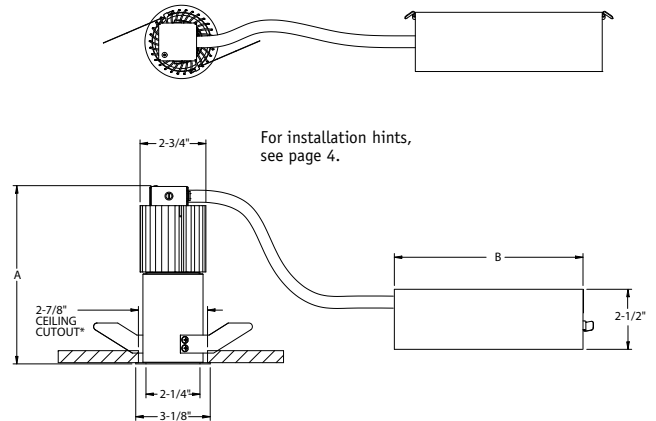
Comes standard with 0-10V dimming capability. Flicker-free dimming to 10%. For sizing control systems, the 0-10V control circuit will draw up to 1 mA. Also available with 0-10V to below 1% or Lutron Ecosystem to 1%.

CERTIFICATIONS:

CSA C/US certified to UL1598. Suitable for wet locations. Non-IC rated and 2IN/2OUT through branch wiring. For connection to flexible conduit only.

WARRANTY:

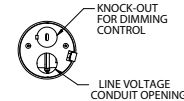
5 Year Warranty. Go to www.prescolite.com for full details.



For installation hints, see page 4.

REFLECTORS	
BEAM ANGLE	DIM "A"
WFL45	5-7/8"
FL35	6-3/4"
MD25	7-1/2"

J-TUBE		
OPTIONS		DIM "B"
STANDARD	12L, 80 CRI	7-3/4"
	ALL OTHERS	6-1/8"
EDM	ALL	6-1/8"
DM01	ALL	10"



CATALOG NUMBER:

EXAMPLE: D2LEEDM-2D9LED9L30K8WFL45

Order accessories separately

J-TUBE ASSEMBLY	VOLTAGE	LIGHT ENGINE	OUTPUT	LED COLOR	CRI	BEAM ANGLE	REFLECTOR FINISH	REFLECTOR COLOR	FLANGE OPTIONS	ACCESSORIES
☐ D2LED J-Tube Assembly with Standard 0-10V 10% Dimming	<i>Standard 120/277V</i> OPTIONS <i>Standard 0-10V 10% Dimming</i> ☐ EDM ² Hi-Lume 1% EcoSystem LED Driver ☐ DM01 ² eLED 0-10V dimming to less than 1%.	☐ 2D9LED 2" Open Reflector/Light Engine Assembly with Xicato module	☐ 9L 900 Delivered Lumens ☐ 12L 1200 Delivered Lumens ☐ 15L ² 1500 Delivered Lumens	☐ 27K 2700 Kelvin ☐ 30K 3000 Kelvin ☐ 35K 3500 Kelvin ☐ 40K 4000 Kelvin	☐ 8 Nominal 80+ CRI ☐ 9 Nominal 95+ CRI	☐ MD25 Nominal 25° cutoff ☐ FL35 Nominal 35° cutoff ☐ WFL45 Nominal 45° cutoff	☐ Standard Specular ☐ SS Semi-Specular ☐ MFC American Matte™ ☐ VS Kurt Versen Softglow® ☐ VSS Kurt Versen SoftSheen™	☐ Standard Clear Alzak ☐ CG Champagne Gold Alzak ☐ BL Black Alzak ☐ LW Light Wheat Alzak ☐ PW Pewter Alzak ☐ BC Painted Flat Black Cone ☐ WC Painted White Cone	☐ Standard Anodized ☐ WT White Trim Flange ☐ BT Flat Black Trim Flange	☐ FMR2 2" Flush Mount Ring ☐ D2FRM Mounting Frame ☐ D2ICAT ² IC Rated, Air Tight housing ☐ D2CPC ² CCEA compliant housing ☐ LiteGear ¹ Inverter, single phase central lighting, 125VA-250VA ☐ LPS Series ¹ LitePower micro-inverter, 20VA-55VA

¹ See Central Inverter compatibility note and web links on page 4

² EDM, DM01, and 15L models are not compatible with D2ICAT or D2CPC. See additional notes on page 4 for important product life/warranty information when using D2ICAT or D2CPC with 12L 95 CRI

PHOTOMETRIC DATA

Architektūr - 2" D2LED Open Downlight

ELECTRICAL DATA	9L		12L		15L
	80+ CRI	95 CRI	80+ CRI	95 CRI	80+ CRI
Input Voltage	120 or 277V	120 or 277V	120 or 277V	120 or 277V	120 or 277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input Power (Watts)	12.6 W	19.0 W	15.7 W	23.4 W	21.1 W
Input Current (@120V)	0.106 A	0.160 A	0.132 A	0.190 A	0.180 A
Input Current (@277V)	0.046 A	0.069 A	0.057 A	0.085 A	0.077 A
Constant Current Output	610 mA	560 mA	500 mA	700 mA	700 mA
Power Factor	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90
EMI Filtering (FCC 47CFR, Part 15)	Class B	Class B	Class B	Class B	Class B
Operating Temp	-30°C to 35°C	-30°C to 35°C	-30°C to 25°C	-30°C to 25°C	-30°C to 25°C

Lumen Multipliers For Various Alzak Colors

Clear Specular	1.00
Pewter Specular	0.94
Champagne Gold Specular	0.96
Light Wheat Specular	0.84
Black Specular	0.62

Note: These values are based upon the WFL45 Reflectors.

*Data for standard 0-10V 10% dimming models. Electrical and photometric data may vary slightly with other dimming options.

**Short circuit, over-voltage, over-current protection.

PERFORMANCE SUMMARY

Model	Output	Beam Distribution	Delivered Lumens	Input Watts	Lumens Per Watt	Full Catalog Number
D2LED	9L	25°	727	12.6	57.7	D2LED-2D9LED9L30K8MD25
		35°	863	12.6	68.5	D2LED-2D9LED9L30K8FL35
		45°	921	12.6	73.1	D2LED-2D9LED9L30K8WFL45
	12L	25°	968	15.7	61.7	D2LED-2D9LED12L30K8MD25
		35°	1150	15.7	73.2	D2LED-2D9LED12L30K8FL35
		45°	1227	15.7	78.2	D2LED-2D9LED12L30K8WFL45
	15L	25°	1287	21.1	61.0	D2LED-2D9LED15L30K8MD25
		35°	1528	21.1	72.4	D2LED-2D9LED15L30K8FL35
		45°	1631	21.1	77.3	D2LED-2D9LED15L30K8WFL45

D2LED-2D9LED15L30K8WFL45

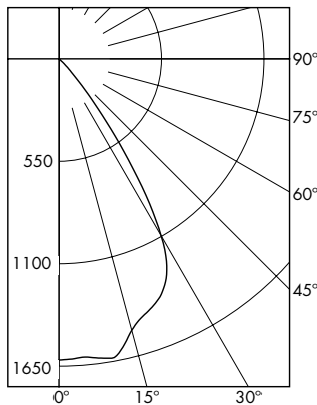
LED Light Engine: 3000K, 80 CRI

System Wattage: 21.1

Fixture delivered lumens: 1631

Fixture Efficacy: 77.3

Spacing Criteria: 0.96



CANDELA DISTRIBUTION

DEG	CANDELA
0	1617
5	1607
15	1509
25	1341
35	607
45	61
55	3
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1186	72.7
0-40	1570	96.2
0-60	1630	100.0
0-90	1631	100.0
0-180	1631	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	30183
55°	1830
65°	828
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%			70%			50%			30%			10%				
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95
2	108	103	99	96	106	102	98	95	98	95	93	91	91	89	93	91	89
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63
8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	56	52

D2LED2D9LED15L30K8WFL45

Test No. 17.02640

Test No. 17.02640

Tested at 25°C Ambient in accordance to IESNA LM-79-2008



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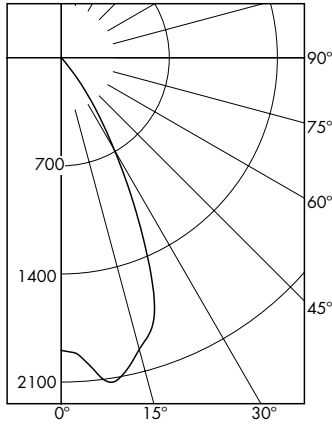


PHOTOMETRIC DATA

Architektūr - 2" D2LED Open Downlight

D2LED-2D9LED15L30K8FL35

LED Light Engine: 3000K, 80 CRI
System Wattage: 21.1
Fixture delivered lumens: 1528
Fixture Efficacy: 72.4
Spacing Criteria: 0.81



CANDELA DISTRIBUTION

DEG	CANDELA
0	1895
5	1988
15	1955
25	1219
35	329
45	11
55	2
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1297	84.9
0-40	1510	98.8
0-60	1527	100.0
0-90	1528	100.0
0-180	1528	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	5443
55°	1220
65°	828
75°	0.
85°	0.

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																								
	80%					70%					50%					30%					10%				
	20% Effective Floor Cavity Reflectance																								
	% Wall Reflectance																								
	70	50	30	10	0	70	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0			
1	114	112	109	107	106	112	109	107	106	106	104	102	102	100	99	98	97	96	95	94	92	91			
2	109	105	101	98	97	107	103	100	97	100	97	95	97	95	93	94	92	91	90	88	86	85			
3	104	99	94	91	90	102	97	93	90	95	91	88	92	89	87	90	88	86	85	83	81	80			
4	100	93	88	84	83	98	92	87	84	90	86	83	88	84	82	86	83	81	80	78	76	75			
5	95	88	83	79	78	94	87	82	78	85	81	78	84	80	77	82	79	76	75	73	71	70			
6	91	83	78	74	73	90	82	77	74	81	77	73	80	76	73	78	75	72	71	69	67	66			
7	87	79	73	70	69	86	78	73	70	77	72	69	76	72	69	75	71	68	67	65	63	62			
8	84	75	70	66	65	82	74	69	66	73	69	65	72	68	65	71	68	65	63	61	59	58			
9	80	71	66	62	61	79	71	66	62	70	65	62	69	65	62	68	64	62	60	58	56	55			
10	77	68	63	59	58	76	68	62	59	67	62	59	66	62	59	65	61	59	57	55	53	52			

D2LED-2D9LED15L30K8FL35

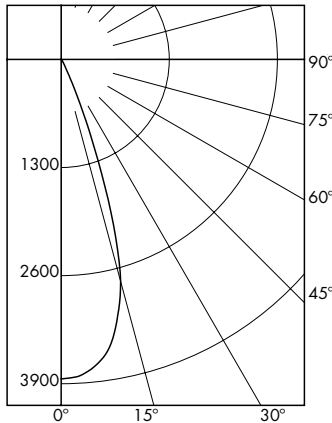
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Test No. 17.02641

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

D2LED-2D9LED15L30K8MD25

LED Light Engine: 3000K, 80 CRI
System Wattage: 21.1
Fixture delivered lumens: 1287
Fixture Efficacy: 61.0
Spacing Criteria: 0.53



CANDELA DISTRIBUTION

DEG	CANDELA
0	3842
5	3761
15	2760
25	302
35	33
45	9
55	4
65	1
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1251	97.2
0-40	1274	99.0
0-60	1285	99.8
0-90	1287	100.0
0-180	1287	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	4453
55°	2440
65°	828
75°	1352
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																								
	80%					70%					50%					30%					10%				
	20% Effective Floor Cavity Reflectance																								
	% Wall Reflectance																								
	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10				
1	115	113	111	109		113	111	109	107		107	105	104		103	102	101		100	99	98				
2	111	107	104	102		109	106	103	101		103	100	98		97	96	95		97	96	94				
3	107	103	99	96		106	101	98	95		96	94	92		94	93	91		94	93	91				
4	104	99	95	91		102	97	94	91		95	92	90		94	91	89		92	90	88				
5	101	95	91	87		99	94	90	87		92	89	86		91	88	86		89	87	85				
6	98	91	87	84		96	91	87	84		89	86	83		88	85	83		87	84	82				
7	95	88	84	81		94	88	84	81		87	83	80		85	82	80		85	82	80				
8	92	85	81	78		91	85	81	78		84	80	78		83	80	77		82	79	77				
9	89	83	78	76		89	82	78	76		81	78	75		81	77	75		80	77	75				
10	87	80	76	73		86	80	76	73		79	75	73		78	75	73		78	75	73				

D2LED-2D9LED15L30K8MD25

Test No. 17.02642

Test No. 17.02642

Tested at 25°C Ambient in accordance to IESNA LM-79-2008



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CENTRAL INVERTERS

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

INSTALLATION HINTS

Daisy Chain:

Often times through branch wiring (Daisy Chaining) will be desired for installation of the D2LED in an application. There is one knock out available in the J-tube for the line voltage, and one for the low voltage control wires. To accomplish 2in/2out through branch wiring, Prescolite suggests the use of an Arlington Duplex Connector (PN 4040AST).

Ceiling Cut-out:

Due to the discrete trim flange on the D2LED, the accuracy of the 2-7/8" ceiling cut-out is critical to achieving the best results. Prescolite recommends making this cut-out with a 2-7/8" hole saw, such as one manufactured by the Morse Company (TAC46 and TACPD4).

Ceiling Clearance:

When no top access is available to the J-Tube, 8" of plenum clearance is recommended for the standard and EDM driver/J-Tube options. For DM01 option, 10-1/2" plenum clearance is recommended.

Dimming Compatibility Table

Dimming Driver	Manufacturer	Web Link
Standard or DM01	Lutron DTVT	http://bit.ly/11jSvZg
Standard or DM01	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1Bjn2R9
EDM	Lutron	http://bit.ly/1vtjHA1

ADDITIONAL NOTES

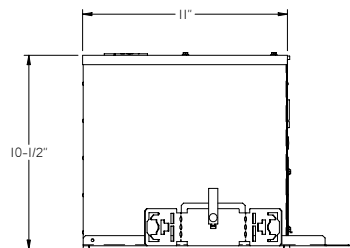
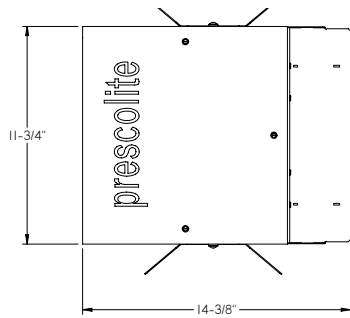
*Note: Use of the D2ICAT and D2CP can cause heat entrapment, which while safe to use, can shorten the expected life of this product from > 50,000 hours to 25,000 hours when used with the 12L or 95 CRI options. The product warranty in these applications will be 5 years, or 25,000 hours, which ever comes first.

*Note: Ceiling thickness maximum when using D2ICAT or D2CP is 5/8". Ceiling thickness maximum when using D2FRM is 1". Bar hangers not included, order B6 for ceiling joists up to 24" centers or B24 for T-bar ceilings.

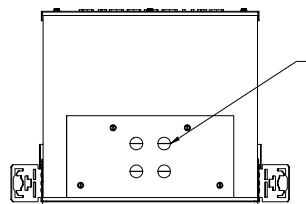
*Note: The standard product is designed and listed to be installed into most ceiling types without the use of an accessory frame. These frames are provided as an optional accessory to be used when desired by the end user to provide extra support or required by local code.

*Note: CP versions require the use of the D2ICAT accessory modified with metal plate in place of polycarbonate.

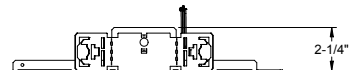
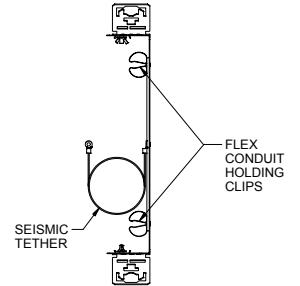
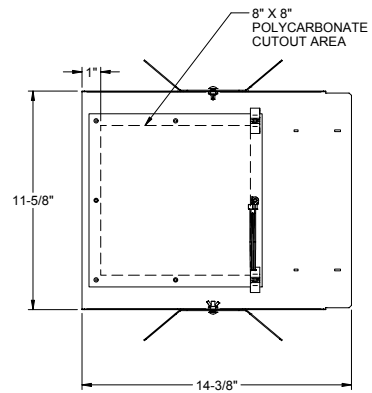
ACCESSORIES



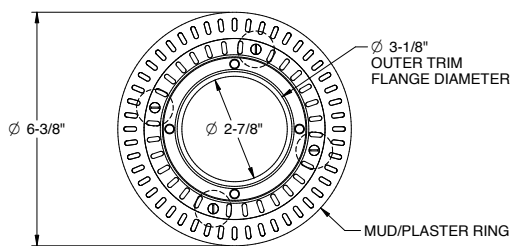
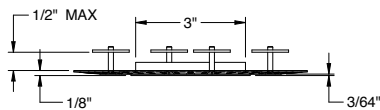
D2ICAT/D2CP



Entry Points
For 3/8" Max.
MC Flex.
See instruction sheet
for installation details.
www.prescolite.com



D2FRM



FMR2