

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865432

Luminaire Tested: PRLX-2001-S-927-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

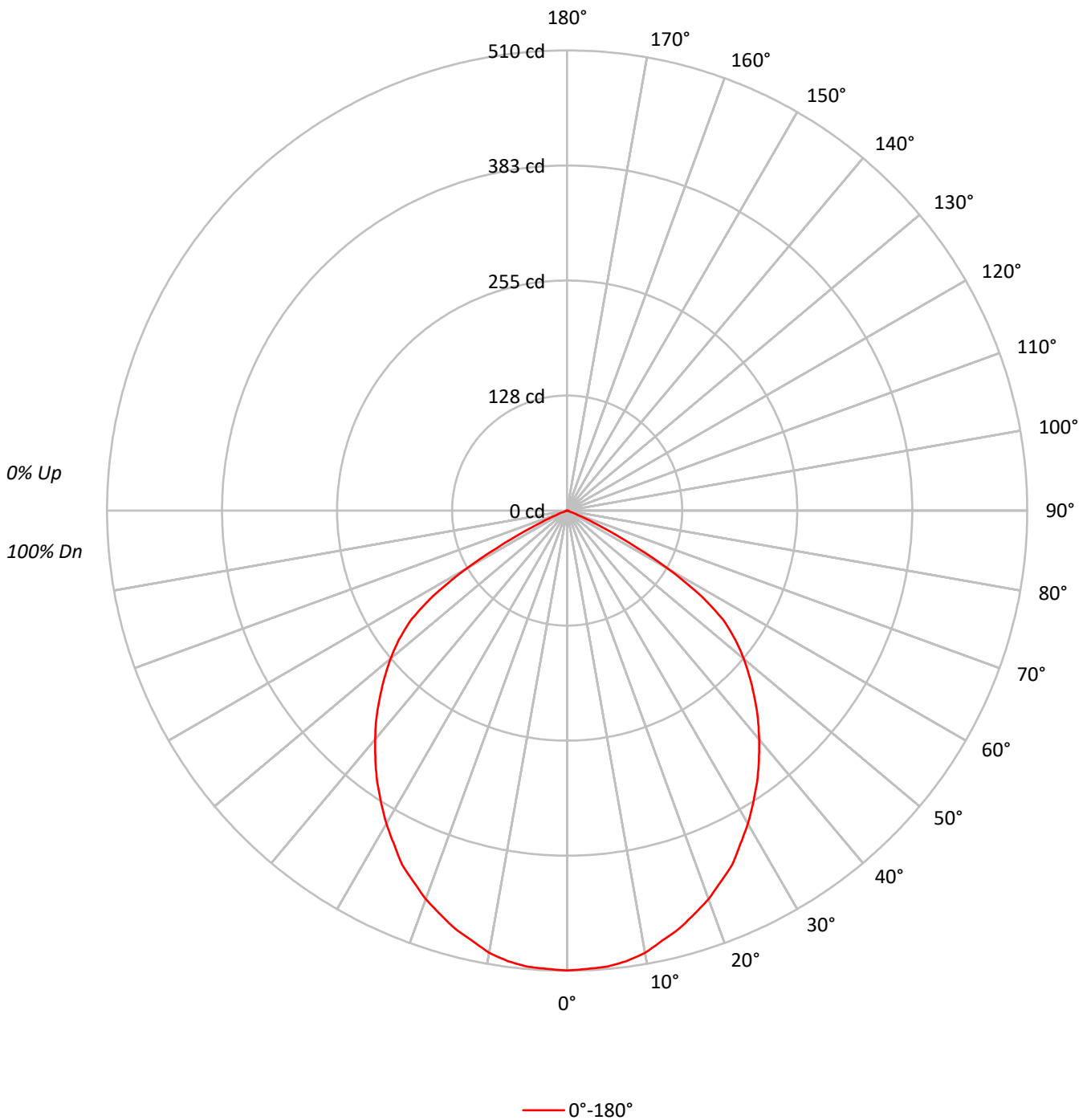
Lumens per Lamp: N/A
Luminaire Lumens: 1069.3 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8313
5°	8306
10°	8243
15°	8100
20°	7953
25°	7792
30°	7545
35°	7307
40°	7047
45°	6777
50°	6483
55°	6003
60°	4224
65°	1389
70°	114
75°	76
80°	113
85°	225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	4.5
10°-20°	135.1	12.6
20°-30°	198.7	18.6
30°-40°	229.3	21.4
40°-50°	226.6	21.2
50°-60°	181.7	17.0
60°-70°	47.1	4.4
70°-80°	1.4	0.1
80°-90°	1.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	381.9	35.7
0°-40°	611.2	57.2
0°-60°	1019.6	95.4
0°-90°	1069.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	510	
5°	507	48
15°	480	135
25°	433	199
35°	367	229
45°	294	227
55°	211	182
65°	36	47
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	509.7
2.5°	508.5
5°	507.3
7.5°	503.7
10°	497.7
12.5°	488.1
15°	479.7
17.5°	468.9
20°	458.2
22.5°	445.0
25°	433.0
27.5°	416.2
30°	400.6
32.5°	383.8
35°	367.0
37.5°	349.0
40°	331.0
42.5°	313.0
45°	293.8
47.5°	274.7
50°	255.5
52.5°	235.1
55°	211.1
57.5°	176.3
60°	129.5
62.5°	78.0
65°	36.0
67.5°	13.2
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
85°	1.2
87.5°	1.2
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.14	19.59	18.50	19.90	20.21	18.14	19.59	18.50	19.90	20.21
	3H	18.03	19.31	18.41	19.64	20.00	18.03	19.31	18.41	19.64	20.00
	4H	17.97	19.16	18.37	19.51	19.89	17.97	19.16	18.37	19.51	19.89
	6H	17.90	18.99	18.31	19.36	19.75	17.90	18.99	18.31	19.36	19.75
	8H	17.86	18.90	18.29	19.29	19.69	17.86	18.90	18.29	19.29	19.69
	12H	17.83	18.81	18.26	19.20	19.63	17.83	18.81	18.26	19.20	19.63
4H	2H	18.04	19.23	18.44	19.58	19.96	18.04	19.23	18.44	19.58	19.96
	3H	17.94	18.90	18.36	19.30	19.71	17.94	18.90	18.36	19.30	19.71
	4H	17.87	18.72	18.30	19.14	19.58	17.87	18.72	18.30	19.14	19.58
	6H	17.80	18.53	18.26	18.97	19.44	17.80	18.53	18.26	18.97	19.44
	8H	17.74	18.43	18.21	18.88	19.35	17.74	18.43	18.21	18.88	19.35
	12H	17.70	18.31	18.19	18.79	19.27	17.70	18.31	18.19	18.79	19.27
8H	4H	17.74	18.43	18.21	18.87	19.34	17.74	18.43	18.21	18.87	19.34
	6H	17.65	18.21	18.15	18.70	19.18	17.65	18.21	18.15	18.70	19.18
	8H	17.59	18.10	18.10	18.61	19.10	17.59	18.10	18.10	18.61	19.10
	12H	17.54	18.00	18.06	18.49	19.06	17.54	18.00	18.06	18.49	19.06
12H	4H	17.70	18.31	18.18	18.79	19.26	17.70	18.31	18.18	18.79	19.26
	6H	17.58	18.09	18.10	18.61	19.10	17.58	18.09	18.10	18.61	19.10
	8H	17.54	18.00	18.05	18.49	19.06	17.54	18.00	18.05	18.49	19.06