

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: P865632

Luminaire Tested: PRLX-2002-S-930-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

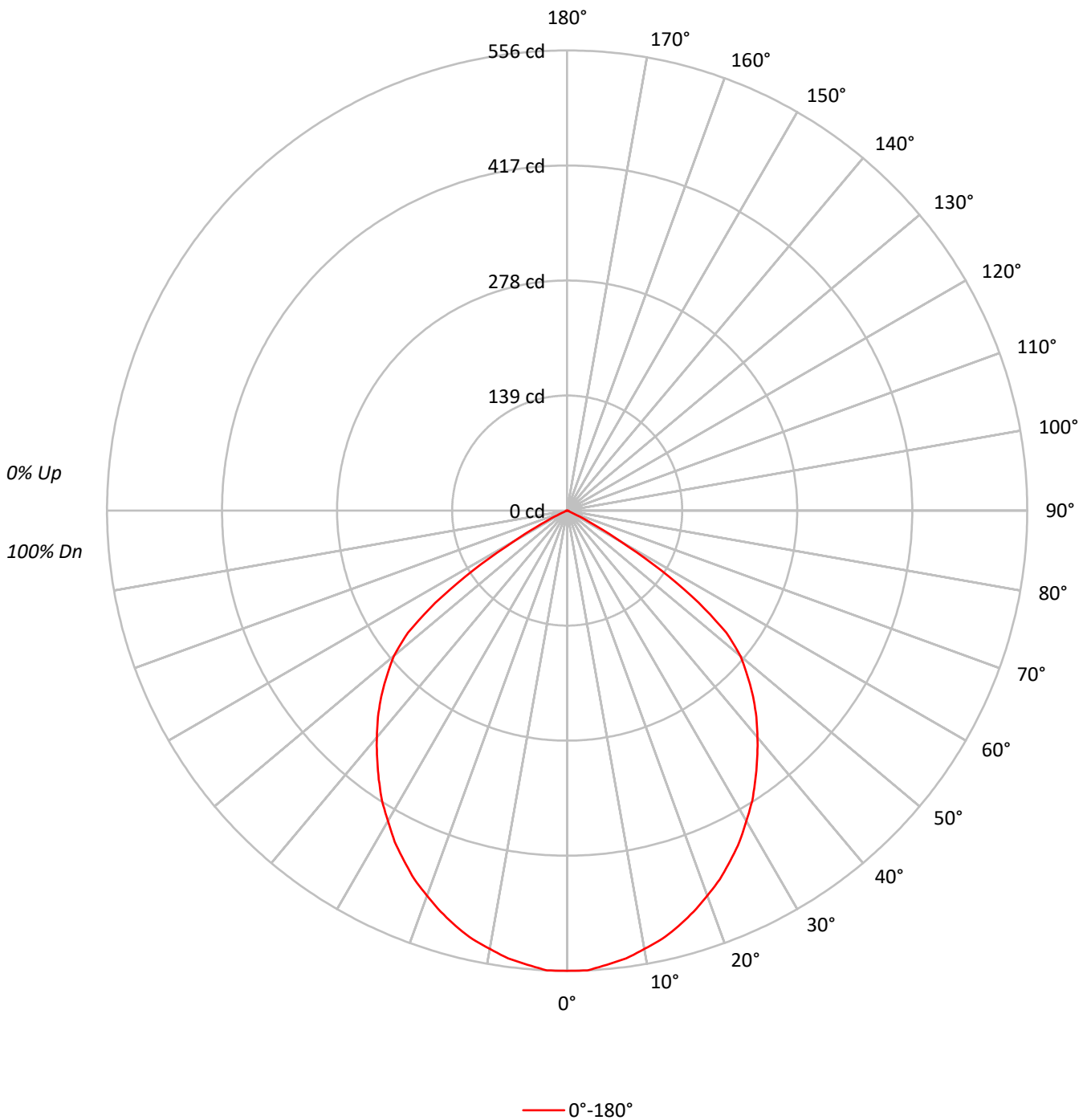
Lumens per Lamp: N/A
Luminaire Lumens: 1095.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: 0.333 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10446
5°	10388
10°	10260
15°	10109
20°	9899
25°	9671
30°	9390
35°	9097
40°	8774
45°	8437
50°	7993
55°	6366
60°	2776
65°	578
70°	71
75°	94
80°	141
85°	280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	4.8
10°-20°	146.4	13.4
20°-30°	214.8	19.6
30°-40°	248.0	22.6
40°-50°	244.4	22.3
50°-60°	165.4	15.1
60°-70°	21.4	2.0
70°-80°	1.4	0.1
80°-90°	1.2	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°	413.5	37.7
0°-40°	661.5	60.4
0°-60°	1071.3	97.8
0°-90°	1095.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	551	52
15°	520	146
25°	467	215
35°	397	248
45°	318	244
55°	194	165
65°	13	21
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	556.1
2.5°	556.1
5°	550.9
7.5°	545.7
10°	537.9
12.5°	530.2
15°	519.8
17.5°	508.1
20°	495.2
22.5°	482.2
25°	466.6
27.5°	451.1
30°	432.9
32.5°	416.1
35°	396.7
37.5°	377.2
40°	357.8
42.5°	338.3
45°	317.6
47.5°	295.5
50°	273.5
52.5°	242.4
55°	194.4
57.5°	134.8
60°	73.9
62.5°	35.0
65°	13.0
67.5°	2.6
70°	1.3
72.5°	1.3
75°	1.3
77.5°	1.3
80°	1.3
82.5°	1.3
85°	1.3
87.5°	1.3
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	16.64	18.04	17.00	18.35	18.67	16.64	18.04	17.00	18.35	18.67
	3H	16.52	17.75	16.90	18.08	18.44	16.52	17.75	16.90	18.08	18.44
	4H	16.45	17.59	16.85	17.94	18.33	16.45	17.59	16.85	17.94	18.33
	6H	16.38	17.43	16.79	17.80	18.19	16.38	17.43	16.79	17.80	18.19
	8H	16.34	17.33	16.77	17.72	18.13	16.34	17.33	16.77	17.72	18.13
	12H	16.30	17.25	16.73	17.63	18.06	16.30	17.25	16.73	17.63	18.06
4H	2H	16.47	17.61	16.87	17.96	18.35	16.47	17.61	16.87	17.96	18.35
	3H	16.35	17.27	16.77	17.67	18.08	16.35	17.27	16.77	17.67	18.08
	4H	16.27	17.09	16.71	17.51	17.95	16.27	17.09	16.71	17.51	17.95
	6H	16.20	16.90	16.66	17.34	17.81	16.20	16.90	16.66	17.34	17.81
	8H	16.14	16.80	16.61	17.25	17.72	16.14	16.80	16.61	17.25	17.72
	12H	16.10	16.68	16.59	17.17	17.64	16.10	16.68	16.59	17.17	17.64
8H	4H	16.14	16.79	16.61	17.24	17.71	16.14	16.79	16.61	17.24	17.71
	6H	16.04	16.58	16.54	17.07	17.56	16.04	16.58	16.54	17.07	17.56
	8H	15.97	16.47	16.49	16.98	17.47	15.97	16.47	16.49	16.98	17.47
	12H	15.93	16.37	16.44	16.87	17.44	15.93	16.37	16.44	16.87	17.44
12H	4H	16.09	16.67	16.58	17.16	17.63	16.09	16.67	16.58	17.16	17.63
	6H	15.97	16.46	16.49	16.98	17.47	15.97	16.46	16.49	16.98	17.47
	8H	15.92	16.37	16.44	16.86	17.43	15.92	16.37	16.44	16.86	17.43