

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: P865592

Luminaire Tested: PRLX-2002-S-927-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865592
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-927-15L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

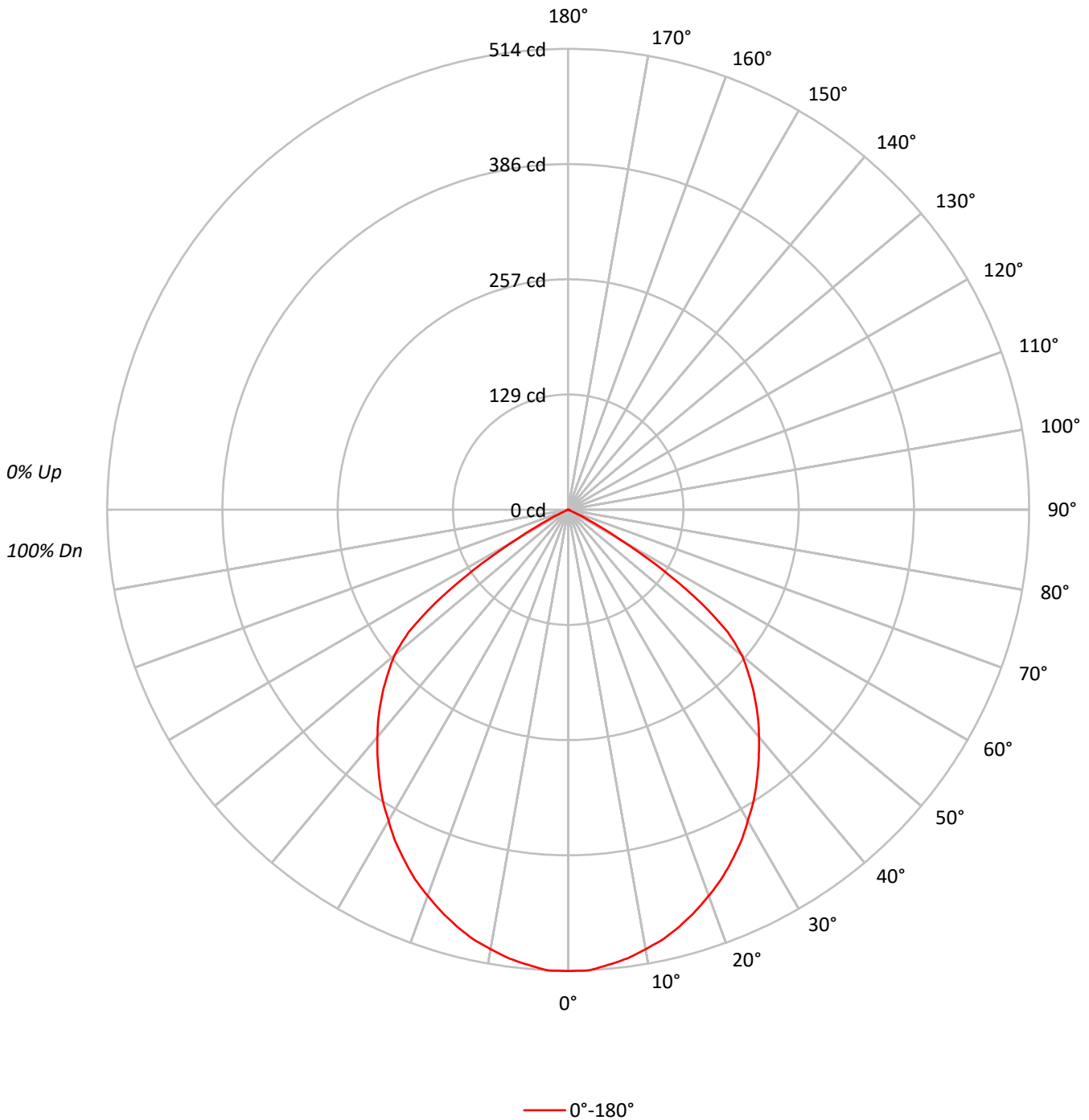
Lumens per Lamp: N/A
Luminaire Lumens: 1013.5 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P865592

CATALOG NUMBER: PRLX-2002-S-927-15L-L-U-S-X-X-BLAK-X

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°	9665
5°	9611
10°	9493
15°	9352
20°	9159
25°	8950
30°	8689
35°	8416
40°	8117
45°	7805
50°	7396
55°	5892
60°	2570
65°	533
70°	66
75°	87
80°	130
85°	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7805 cd/sqm

TEST NUMBER: P865592

CATALOG NUMBER: PRLX-2002-S-927-15L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	4.8
10°-20°	135.4	13.4
20°-30°	198.8	19.6
30°-40°	229.5	22.6
40°-50°	226.2	22.3
50°-60°	153.1	15.1
60°-70°	19.8	2.0
70°-80°	1.3	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°	382.6	37.7
0°-40°	612.1	60.4
0°-60°	991.3	97.8
0°-90°	1013.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	514	
5°	510	48
15°	481	135
25°	432	199
35°	367	229
45°	294	226
55°	180	153
65°	12	20
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	514.5
2.5°	514.5
5°	509.7
7.5°	504.9
10°	497.7
12.5°	490.5
15°	480.9
17.5°	470.1
20°	458.2
22.5°	446.2
25°	431.8
27.5°	417.4
30°	400.6
32.5°	385.0
35°	367.0
37.5°	349.0
40°	331.0
42.5°	313.0
45°	293.8
47.5°	273.5
50°	253.1
52.5°	224.3
55°	179.9
57.5°	124.7
60°	68.4
62.5°	32.4
65°	12.0
67.5°	2.4
70°	1.2
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	16.37	17.77	16.73	18.08	18.40	16.37	17.77	16.73	18.08	18.40
	3H	16.25	17.48	16.63	17.81	18.17	16.25	17.48	16.63	17.81	18.17
	4H	16.18	17.32	16.58	17.67	18.05	16.18	17.32	16.58	17.67	18.05
	6H	16.11	17.16	16.52	17.52	17.92	16.11	17.16	16.52	17.52	17.92
	8H	16.07	17.06	16.50	17.45	17.86	16.07	17.06	16.50	17.45	17.86
	12H	16.03	16.98	16.46	17.36	17.79	16.03	16.98	16.46	17.36	17.79
4H	2H	16.20	17.34	16.60	17.69	18.07	16.20	17.34	16.60	17.69	18.07
	3H	16.08	17.00	16.50	17.40	17.81	16.08	17.00	16.50	17.40	17.81
	4H	16.00	16.82	16.44	17.23	17.68	16.00	16.82	16.44	17.23	17.68
	6H	15.93	16.63	16.39	17.07	17.54	15.93	16.63	16.39	17.07	17.54
	8H	15.87	16.53	16.34	16.97	17.45	15.87	16.53	16.34	16.97	17.45
	12H	15.83	16.41	16.32	16.89	17.37	15.83	16.41	16.32	16.89	17.37
8H	4H	15.87	16.52	16.34	16.97	17.44	15.87	16.52	16.34	16.97	17.44
	6H	15.77	16.31	16.27	16.80	17.28	15.77	16.31	16.27	16.80	17.28
	8H	15.70	16.19	16.22	16.71	17.20	15.70	16.19	16.22	16.71	17.20
	12H	15.66	16.10	16.17	16.60	17.17	15.66	16.10	16.17	16.60	17.17
12H	4H	15.82	16.40	16.31	16.89	17.36	15.82	16.40	16.31	16.89	17.36
	6H	15.70	16.19	16.22	16.71	17.20	15.70	16.19	16.22	16.71	17.20
	8H	15.65	16.10	16.17	16.59	17.16	15.65	16.10	16.17	16.59	17.16