

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: P866243

Luminaire Tested: PRLX-2002-M-930-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-M-930-35L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

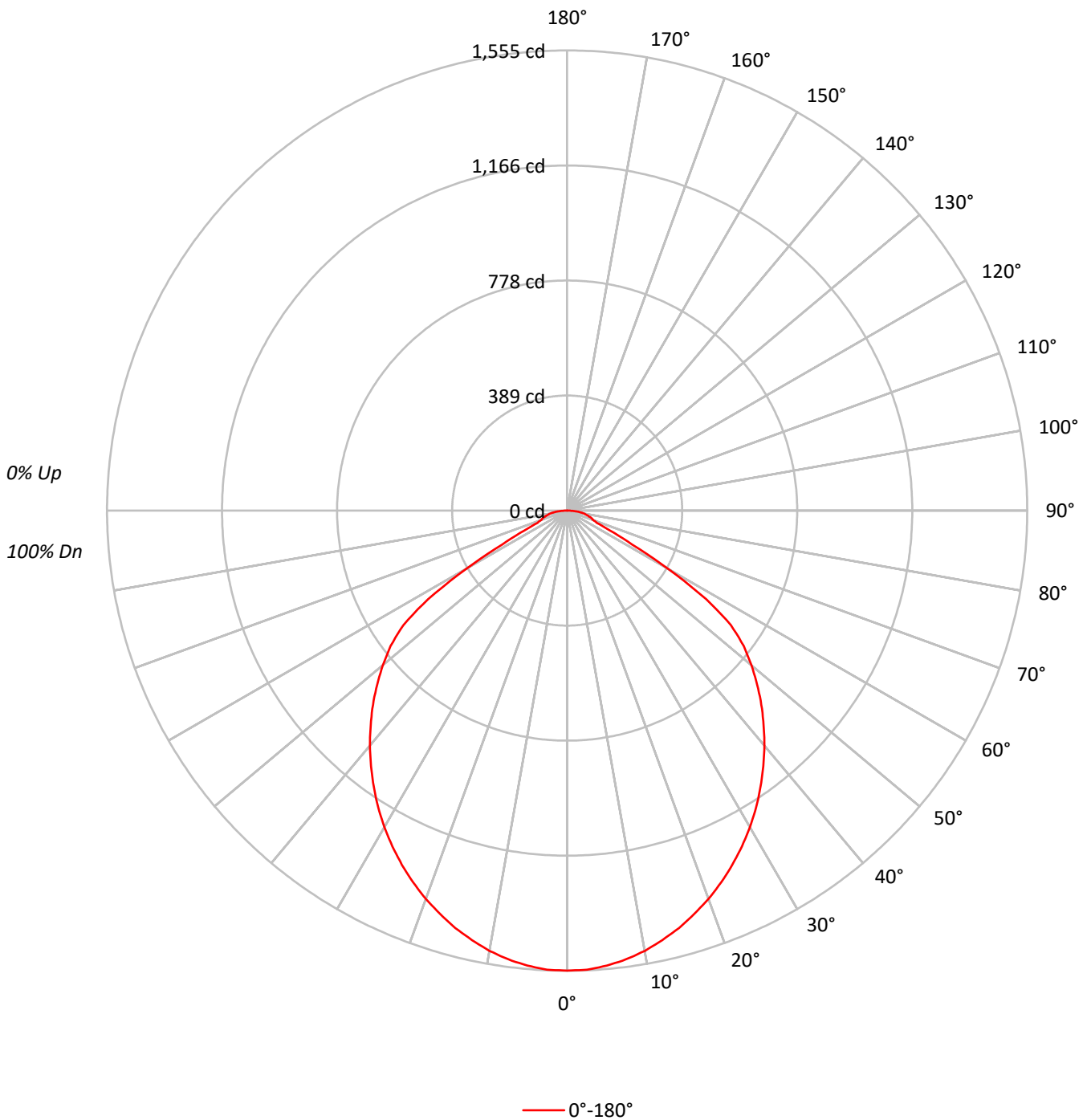
Lumens per Lamp: N/A
Luminaire Lumens: 3472.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): 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: P866243

CATALOG NUMBER: PRLX-2002-M-930-35L-L-U-S-X-X-WHHR-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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12368
5°	12326
10°	12205
15°	12030
20°	11822
25°	11595
30°	11348
35°	11066
40°	10770
45°	10442
50°	10059
55°	9374
60°	6295
65°	2978
70°	2187
75°	2345
80°	2602
85°	2885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	4.2
10°-20°	411.5	11.9
20°-30°	608.3	17.5
30°-40°	712.7	20.5
40°-50°	715.4	20.6
50°-60°	577.4	16.6
60°-70°	186.6	5.4
70°-80°	80.6	2.3
80°-90°	33.3	1.0
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°	1166.1	33.6
0°-40°	1878.7	54.1
0°-60°	3171.5	91.3
0°-90°	3472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3472.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1555	
5°	1543	146
15°	1461	411
25°	1321	608
35°	1139	713
45°	928	715
55°	676	577
65°	158	187
75°	76	81
85°	32	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1554.6
2.5°	1552.7
5°	1543.4
7.5°	1529.4
10°	1510.8
12.5°	1486.6
15°	1460.6
17.5°	1428.9
20°	1396.3
22.5°	1360.0
25°	1320.9
27.5°	1279.0
30°	1235.3
32.5°	1188.7
35°	1139.4
37.5°	1089.1
40°	1037.0
42.5°	983.0
45°	928.1
47.5°	871.3
50°	812.7
52.5°	752.2
55°	675.8
57.5°	557.6
60°	395.6
62.5°	247.6
65°	158.2
67.5°	108.9
70°	94.0
72.5°	86.6
75°	76.3
77.5°	67.0
80°	56.8
82.5°	45.6
85°	31.6
87.5°	16.8
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	19.47	20.97	19.84	21.29	21.60	19.47	20.97	19.84	21.29	21.60
	3H	19.58	20.91	19.96	21.24	21.60	19.58	20.91	19.96	21.24	21.60
	4H	19.67	20.91	20.07	21.26	21.64	19.67	20.91	20.07	21.26	21.64
	6H	19.78	20.93	20.20	21.30	21.69	19.78	20.93	20.20	21.30	21.69
	8H	19.84	20.93	20.27	21.32	21.72	19.84	20.93	20.27	21.32	21.72
	12H	19.89	20.93	20.32	21.31	21.74	19.89	20.93	20.32	21.31	21.74
4H	2H	19.44	20.68	19.84	21.03	21.41	19.44	20.68	19.84	21.03	21.41
	3H	19.64	20.66	20.05	21.06	21.46	19.64	20.66	20.05	21.06	21.46
	4H	19.80	20.71	20.23	21.12	21.56	19.80	20.71	20.23	21.12	21.56
	6H	20.02	20.81	20.48	21.25	21.71	20.02	20.81	20.48	21.25	21.71
	8H	20.12	20.86	20.59	21.31	21.77	20.12	20.86	20.59	21.31	21.77
	12H	20.22	20.88	20.71	21.36	21.83	20.22	20.88	20.71	21.36	21.83
8H	4H	19.81	20.55	20.28	21.00	21.47	19.81	20.55	20.28	21.00	21.47
	6H	20.11	20.73	20.61	21.22	21.70	20.11	20.73	20.61	21.22	21.70
	8H	20.28	20.83	20.80	21.35	21.83	20.28	20.83	20.80	21.35	21.83
	12H	20.46	20.95	20.97	21.45	22.01	20.46	20.95	20.97	21.45	22.01
12H	4H	19.80	20.46	20.29	20.94	21.41	19.80	20.46	20.29	20.94	21.41
	6H	20.12	20.67	20.63	21.18	21.67	20.12	20.67	20.63	21.18	21.67
	8H	20.33	20.83	20.84	21.32	21.89	20.33	20.83	20.84	21.32	21.89