

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: P866371

Luminaire Tested: PRLX-2002-M-940-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866371
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: Prenalux
Catalog Number: PRLX-2002-M-940-35L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

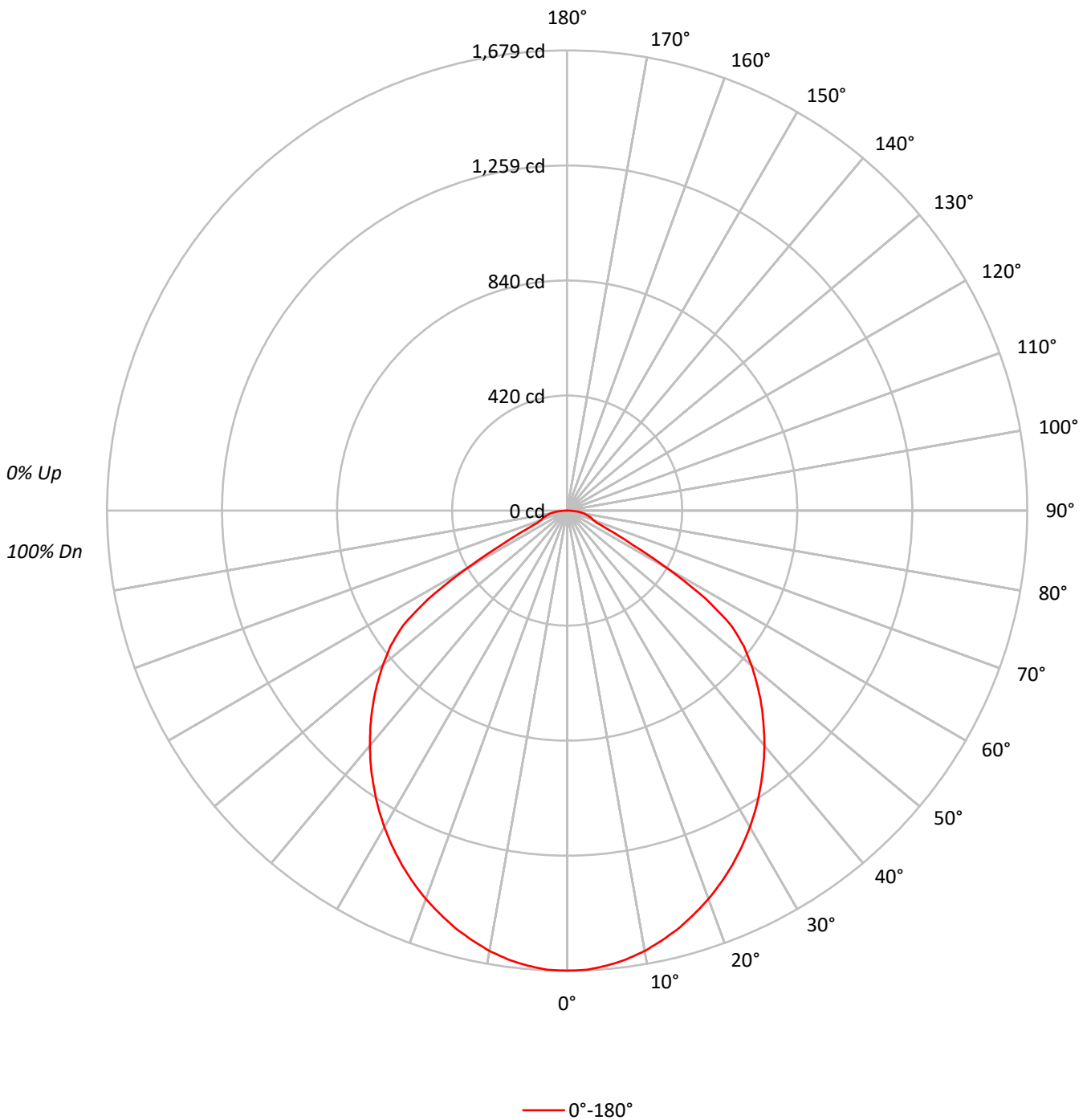
Lumens per Lamp: N/A
Luminaire Lumens: 3749.3 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

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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	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°	13355
5°	13310
10°	13180
15°	12990
20°	12766
25°	12521
30°	12254
35°	11950
40°	11630
45°	11276
50°	10861
55°	10123
60°	6797
65°	3217
70°	2361
75°	2533
80°	2808
85°	3122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	4.2
10°-20°	444.3	11.9
20°-30°	656.9	17.5
30°-40°	769.6	20.5
40°-50°	772.5	20.6
50°-60°	623.5	16.6
60°-70°	201.5	5.4
70°-80°	87.0	2.3
80°-90°	36.0	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°	1259.2	33.6
0°-40°	2028.8	54.1
0°-60°	3424.8	91.3
0°-90°	3749.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1679	
5°	1667	158
15°	1577	444
25°	1426	657
35°	1230	770
45°	1002	773
55°	730	623
65°	171	202
75°	82	87
85°	34	36
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1678.7
2.5°	1676.7
5°	1666.6
7.5°	1651.6
10°	1631.5
12.5°	1605.3
15°	1577.2
17.5°	1543.0
20°	1507.8
22.5°	1468.6
25°	1426.4
27.5°	1381.2
30°	1333.9
32.5°	1283.7
35°	1230.4
37.5°	1176.1
40°	1119.8
42.5°	1061.5
45°	1002.2
47.5°	940.9
50°	877.5
52.5°	812.2
55°	729.8
57.5°	602.1
60°	427.2
62.5°	267.4
65°	170.9
67.5°	117.6
70°	101.5
72.5°	93.5
75°	82.4
77.5°	72.4
80°	61.3
82.5°	49.3
85°	34.2
87.5°	18.1
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	19.74	21.24	20.11	21.55	21.87	19.74	21.24	20.11	21.55	21.87
	3H	19.85	21.18	20.23	21.51	21.87	19.85	21.18	20.23	21.51	21.87
	4H	19.94	21.18	20.34	21.53	21.91	19.94	21.18	20.34	21.53	21.91
	6H	20.05	21.19	20.46	21.56	21.95	20.05	21.19	20.46	21.56	21.95
	8H	20.11	21.19	20.53	21.58	21.99	20.11	21.19	20.53	21.58	21.99
	12H	20.15	21.20	20.59	21.58	22.01	20.15	21.20	20.59	21.58	22.01
4H	2H	19.70	20.95	20.10	21.30	21.68	19.70	20.95	20.10	21.30	21.68
	3H	19.91	20.92	20.32	21.33	21.73	19.91	20.92	20.32	21.33	21.73
	4H	20.06	20.97	20.50	21.39	21.83	20.06	20.97	20.50	21.39	21.83
	6H	20.29	21.07	20.74	21.52	21.98	20.29	21.07	20.74	21.52	21.98
	8H	20.39	21.13	20.85	21.57	22.04	20.39	21.13	20.85	21.57	22.04
	12H	20.49	21.15	20.97	21.63	22.10	20.49	21.15	20.97	21.63	22.10
8H	4H	20.08	20.82	20.55	21.26	21.73	20.08	20.82	20.55	21.26	21.73
	6H	20.38	20.99	20.88	21.49	21.96	20.38	20.99	20.88	21.49	21.96
	8H	20.55	21.10	21.06	21.61	22.10	20.55	21.10	21.06	21.61	22.10
	12H	20.72	21.22	21.23	21.71	22.28	20.72	21.22	21.23	21.71	22.28
12H	4H	20.07	20.73	20.55	21.21	21.68	20.07	20.73	20.55	21.21	21.68
	6H	20.38	20.94	20.90	21.45	21.94	20.38	20.94	20.90	21.45	21.94
	8H	20.60	21.10	21.11	21.59	22.16	20.60	21.10	21.11	21.59	22.16