

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: P866179

Luminaire Tested: PRLX-2002-M-927-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866179
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-927-35L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

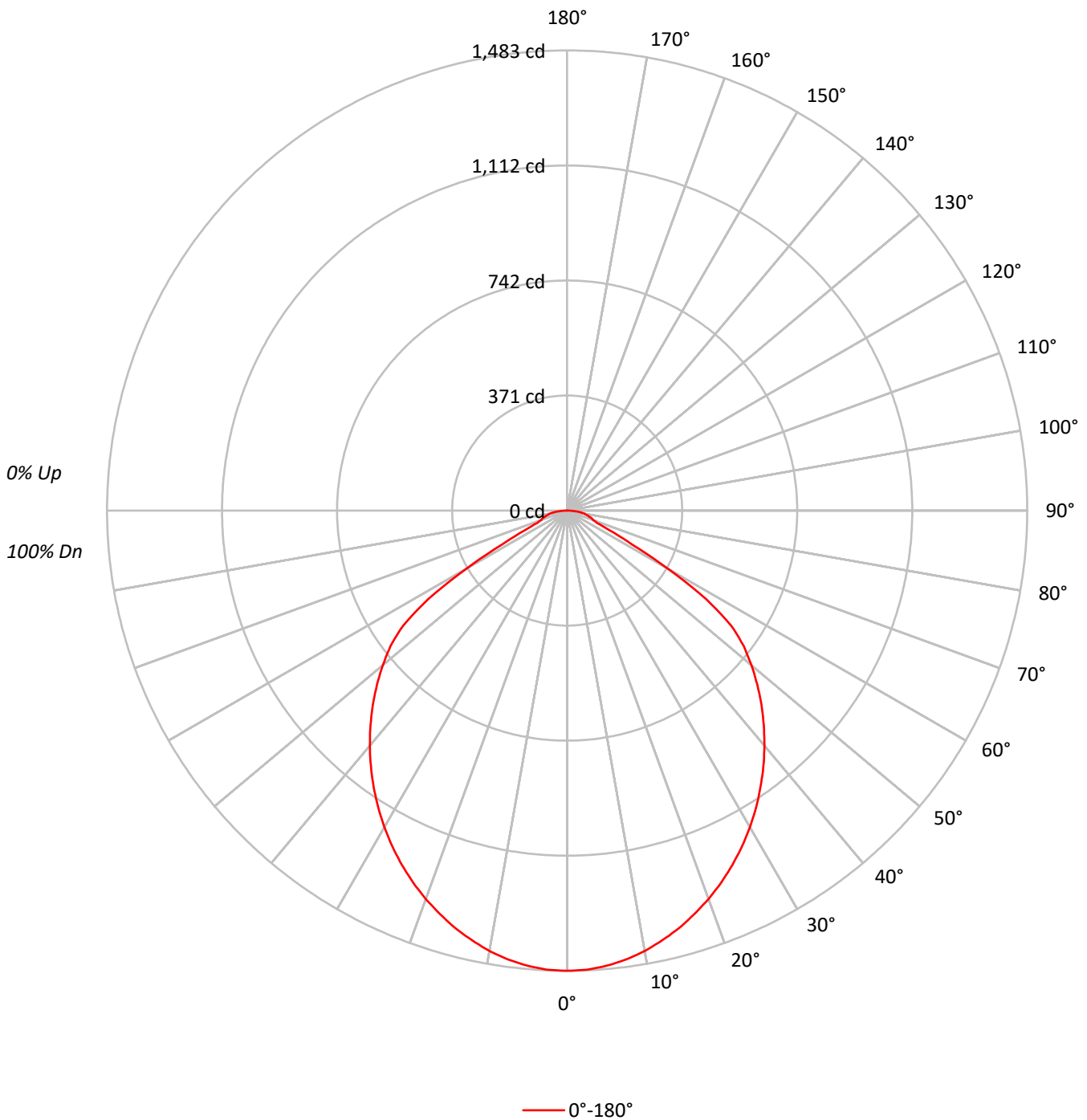
Lumens per Lamp: N/A
Luminaire Lumens: 3312.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (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	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°	11798
5°	11759
10°	11644
15°	11477
20°	11278
25°	11061
30°	10825
35°	10557
40°	10274
45°	9962
50°	9596
55°	8942
60°	6005
65°	2843
70°	2087
75°	2238
80°	2483
85°	2757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9962 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	4.2
10°-20°	392.5	11.9
20°-30°	580.3	17.5
30°-40°	679.9	20.5
40°-50°	682.5	20.6
50°-60°	550.8	16.6
60°-70°	178.0	5.4
70°-80°	76.9	2.3
80°-90°	31.8	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°	1112.4	33.6
0°-40°	1792.3	54.1
0°-60°	3025.6	91.3
0°-90°	3312.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1483	
5°	1472	140
15°	1393	393
25°	1260	580
35°	1087	680
45°	885	682
55°	645	551
65°	151	178
75°	73	77
85°	30	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1483.0
2.5°	1481.3
5°	1472.4
7.5°	1459.1
10°	1441.3
12.5°	1418.2
15°	1393.4
17.5°	1363.2
20°	1332.1
22.5°	1297.4
25°	1260.1
27.5°	1220.2
30°	1178.4
32.5°	1134.0
35°	1087.0
37.5°	1039.0
40°	989.3
42.5°	937.8
45°	885.4
47.5°	831.2
50°	775.3
52.5°	717.5
55°	644.7
57.5°	531.9
60°	377.4
62.5°	236.2
65°	151.0
67.5°	103.9
70°	89.7
72.5°	82.6
75°	72.8
77.5°	63.9
80°	54.2
82.5°	43.5
85°	30.2
87.5°	16.0
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	19.31	20.81	19.67	21.12	21.44	19.31	20.81	19.67	21.12	21.44
	3H	19.42	20.75	19.80	21.08	21.44	19.42	20.75	19.80	21.08	21.44
	4H	19.50	20.75	19.90	21.10	21.48	19.50	20.75	19.90	21.10	21.48
	6H	19.62	20.76	20.03	21.13	21.52	19.62	20.76	20.03	21.13	21.52
	8H	19.67	20.76	20.10	21.15	21.55	19.67	20.76	20.10	21.15	21.55
	12H	19.72	20.76	20.15	21.15	21.58	19.72	20.76	20.15	21.15	21.58
4H	2H	19.27	20.52	19.67	20.87	21.25	19.27	20.52	19.67	20.87	21.25
	3H	19.48	20.49	19.89	20.90	21.30	19.48	20.49	19.89	20.90	21.30
	4H	19.63	20.54	20.07	20.96	21.40	19.63	20.54	20.07	20.96	21.40
	6H	19.85	20.64	20.31	21.09	21.55	19.85	20.64	20.31	21.09	21.55
	8H	19.96	20.70	20.42	21.14	21.61	19.96	20.70	20.42	21.14	21.61
	12H	20.06	20.72	20.54	21.20	21.67	20.06	20.72	20.54	21.20	21.67
8H	4H	19.65	20.39	20.12	20.83	21.30	19.65	20.39	20.12	20.83	21.30
	6H	19.95	20.56	20.45	21.05	21.53	19.95	20.56	20.45	21.05	21.53
	8H	20.12	20.67	20.63	21.18	21.67	20.12	20.67	20.63	21.18	21.67
	12H	20.29	20.79	20.80	21.28	21.85	20.29	20.79	20.80	21.28	21.85
12H	4H	19.64	20.30	20.12	20.78	21.25	19.64	20.30	20.12	20.78	21.25
	6H	19.95	20.51	20.47	21.02	21.51	19.95	20.51	20.47	21.02	21.51
	8H	20.17	20.67	20.68	21.16	21.73	20.17	20.67	20.68	21.16	21.73