

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: P865691

Luminaire Tested: PRLX-2002-S-935-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-S-935-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

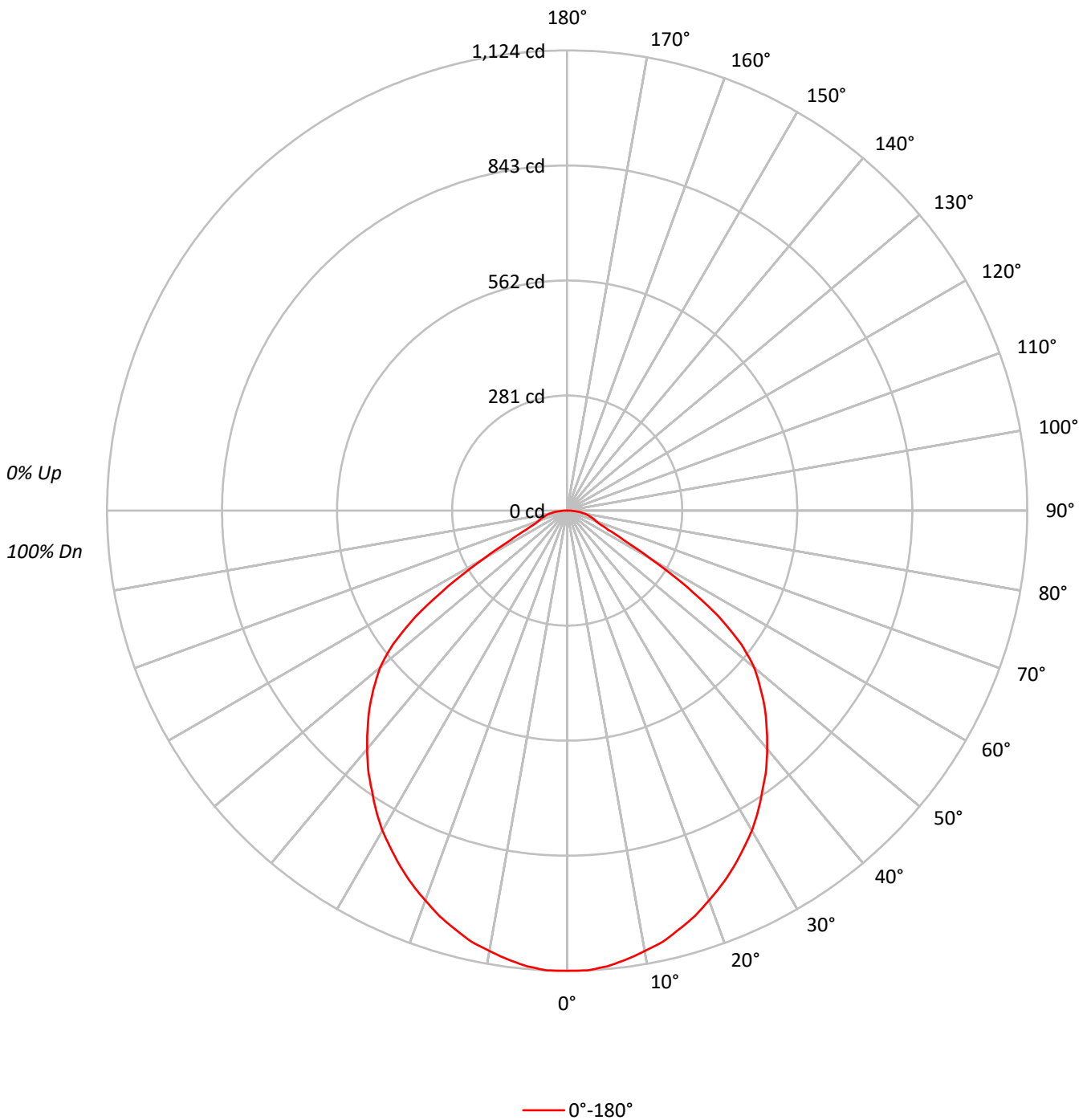
Lumens per Lamp: N/A
Luminaire Lumens: 2495.6 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21117
5°	21070
10°	20838
15°	20587
20°	20256
25°	19924
30°	19575
35°	19088
40°	18636
45°	18147
50°	17449
55°	14816
60°	8836
65°	4925
70°	4097
75°	4268
80°	4652
85°	4871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	4.2
10°-20°	298.5	12.0
20°-30°	442.8	17.7
30°-40°	521.4	20.9
40°-50°	525.5	21.1
50°-60°	389.5	15.6
60°-70°	125.0	5.0
70°-80°	62.7	2.5
80°-90°	24.3	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°	847.1	33.9
0°-40°	1368.5	54.8
0°-60°	2283.6	91.5
0°-90°	2495.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1124	
5°	1117	106
15°	1059	299
25°	961	443
35°	832	521
45°	683	526
55°	452	390
65°	111	125
75°	59	63
85°	23	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1124.2
2.5°	1124.2
5°	1117.4
7.5°	1106.1
10°	1092.5
12.5°	1078.9
15°	1058.6
17.5°	1038.2
20°	1013.3
22.5°	988.5
25°	961.3
27.5°	931.9
30°	902.5
32.5°	868.6
35°	832.4
37.5°	798.5
40°	760.0
42.5°	721.5
45°	683.1
47.5°	640.1
50°	597.1
52.5°	536.1
55°	452.4
57.5°	346.1
60°	235.2
62.5°	156.1
65°	110.8
67.5°	86.0
70°	74.6
72.5°	67.9
75°	58.8
77.5°	52.0
80°	43.0
82.5°	33.9
85°	22.6
87.5°	11.3
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	20.29	21.78	20.65	22.09	22.41	20.29	21.78	20.65	22.09	22.41
	3H	20.53	21.85	20.91	22.18	22.55	20.53	21.85	20.91	22.18	22.55
	4H	20.69	21.93	21.09	22.28	22.66	20.69	21.93	21.09	22.28	22.66
	6H	20.88	22.02	21.30	22.39	22.78	20.88	22.02	21.30	22.39	22.78
	8H	20.97	22.05	21.40	22.44	22.84	20.97	22.05	21.40	22.44	22.84
	12H	21.04	22.08	21.47	22.46	22.89	21.04	22.08	21.47	22.46	22.89
4H	2H	20.29	21.52	20.69	21.87	22.25	20.29	21.52	20.69	21.87	22.25
	3H	20.67	21.68	21.08	22.08	22.48	20.67	21.68	21.08	22.08	22.48
	4H	20.93	21.83	21.36	22.25	22.69	20.93	21.83	21.36	22.25	22.69
	6H	21.26	22.04	21.72	22.49	22.95	21.26	22.04	21.72	22.49	22.95
	8H	21.40	22.14	21.87	22.58	23.05	21.40	22.14	21.87	22.58	23.05
	12H	21.53	22.19	22.01	22.67	23.14	21.53	22.19	22.01	22.67	23.14
8H	4H	21.00	21.73	21.46	22.18	22.65	21.00	21.73	21.46	22.18	22.65
	6H	21.43	22.04	21.93	22.53	23.01	21.43	22.04	21.93	22.53	23.01
	8H	21.65	22.20	22.17	22.71	23.20	21.65	22.20	22.17	22.71	23.20
	12H	21.86	22.36	22.37	22.85	23.41	21.86	22.36	22.37	22.85	23.41
12H	4H	21.00	21.65	21.48	22.13	22.61	21.00	21.65	21.48	22.13	22.61
	6H	21.45	22.00	21.97	22.51	23.00	21.45	22.00	21.97	22.51	23.00
	8H	21.73	22.22	22.24	22.71	23.28	21.73	22.22	22.24	22.71	23.28