

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: P866122

Luminaire Tested: PRLX-2001-M-940-45L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-45L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

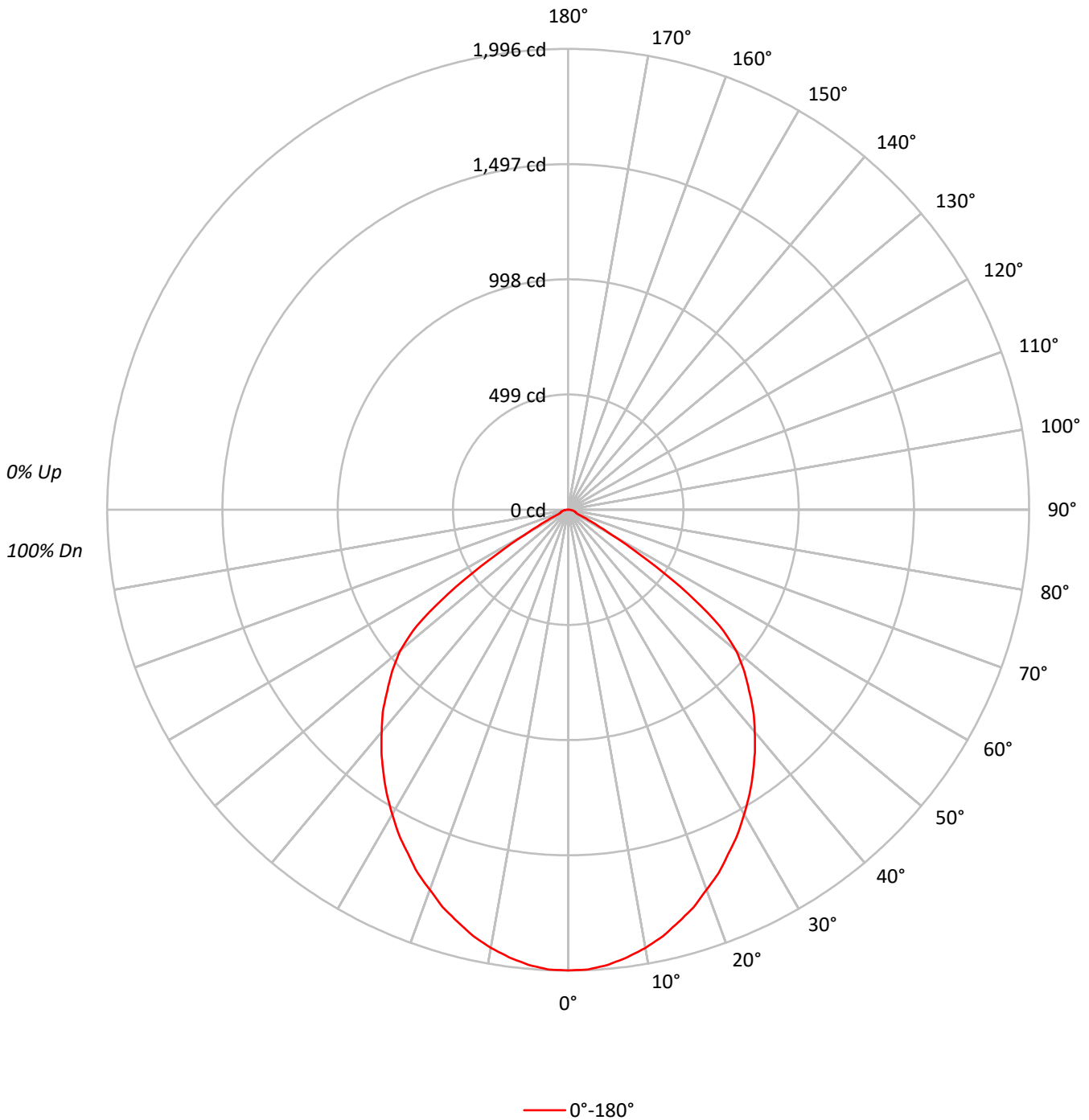
Lumens per Lamp: N/A
Luminaire Lumens: 3855.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	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	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16934
5°	16855
10°	16605
15°	16237
20°	15814
25°	15381
30°	14931
35°	14446
40°	13916
45°	13292
50°	12540
55°	9389
60°	3707
65°	1012
70°	866
75°	931
80°	1012
85°	1003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13292 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	4.9
10°-20°	520.8	13.5
20°-30°	757.2	19.6
30°-40°	872.0	22.6
40°-50°	854.6	22.2
50°-60°	542.9	14.1
60°-70°	79.1	2.1
70°-80°	29.9	0.8
80°-90°	11.3	0.3
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°	1465.2	38.0
0°-40°	2337.3	60.6
0°-60°	3734.8	96.9
0°-90°	3855.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1996	
5°	1979	187
15°	1848	521
25°	1643	757
35°	1394	872
45°	1108	855
55°	635	543
65°	50	79
75°	28	30
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1995.5
2.5°	1992.9
5°	1978.7
7.5°	1955.4
10°	1927.0
12.5°	1892.1
15°	1848.2
17.5°	1805.5
20°	1751.2
22.5°	1703.4
25°	1642.7
27.5°	1587.1
30°	1523.8
32.5°	1461.7
35°	1394.5
37.5°	1327.3
40°	1256.2
42.5°	1187.7
45°	1107.6
47.5°	1032.6
50°	949.9
52.5°	827.1
55°	634.6
57.5°	404.5
60°	218.4
62.5°	109.9
65°	50.4
67.5°	36.2
70°	34.9
72.5°	32.3
75°	28.4
77.5°	24.6
80°	20.7
82.5°	15.5
85°	10.3
87.5°	5.2
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	17.14	18.54	17.50	18.85	19.17	17.14	18.54	17.50	18.85	19.17
	3H	17.07	18.30	17.45	18.63	18.99	17.07	18.30	17.45	18.63	18.99
	4H	17.04	18.19	17.44	18.54	18.92	17.04	18.19	17.44	18.54	18.92
	6H	17.02	18.07	17.44	18.44	18.84	17.02	18.07	17.44	18.44	18.84
	8H	17.01	18.00	17.43	18.39	18.80	17.01	18.00	17.43	18.39	18.80
	12H	16.99	17.94	17.42	18.32	18.75	16.99	17.94	17.42	18.32	18.75
4H	2H	16.98	18.12	17.38	18.47	18.86	16.98	18.12	17.38	18.47	18.86
	3H	16.94	17.86	17.35	18.27	18.67	16.94	17.86	17.35	18.27	18.67
	4H	16.93	17.75	17.36	18.17	18.61	16.93	17.75	17.36	18.17	18.61
	6H	16.94	17.65	17.40	18.09	18.56	16.94	17.65	17.40	18.09	18.56
	8H	16.93	17.59	17.40	18.04	18.51	16.93	17.59	17.40	18.04	18.51
	12H	16.92	17.51	17.41	17.99	18.46	16.92	17.51	17.41	17.99	18.46
8H	4H	16.83	17.50	17.30	17.94	18.41	16.83	17.50	17.30	17.94	18.41
	6H	16.86	17.40	17.36	17.90	18.38	16.86	17.40	17.36	17.90	18.38
	8H	16.86	17.36	17.38	17.87	18.36	16.86	17.36	17.38	17.87	18.36
	12H	16.87	17.32	17.38	17.81	18.38	16.87	17.32	17.38	17.81	18.38
12H	4H	16.80	17.39	17.28	17.87	18.34	16.80	17.39	17.28	17.87	18.34
	6H	16.81	17.31	17.33	17.82	18.31	16.81	17.31	17.33	17.82	18.31
	8H	16.84	17.28	17.35	17.78	18.35	16.84	17.28	17.35	17.78	18.35