

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: P866127

Luminaire Tested: PRLX-2001-M-940-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-55L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

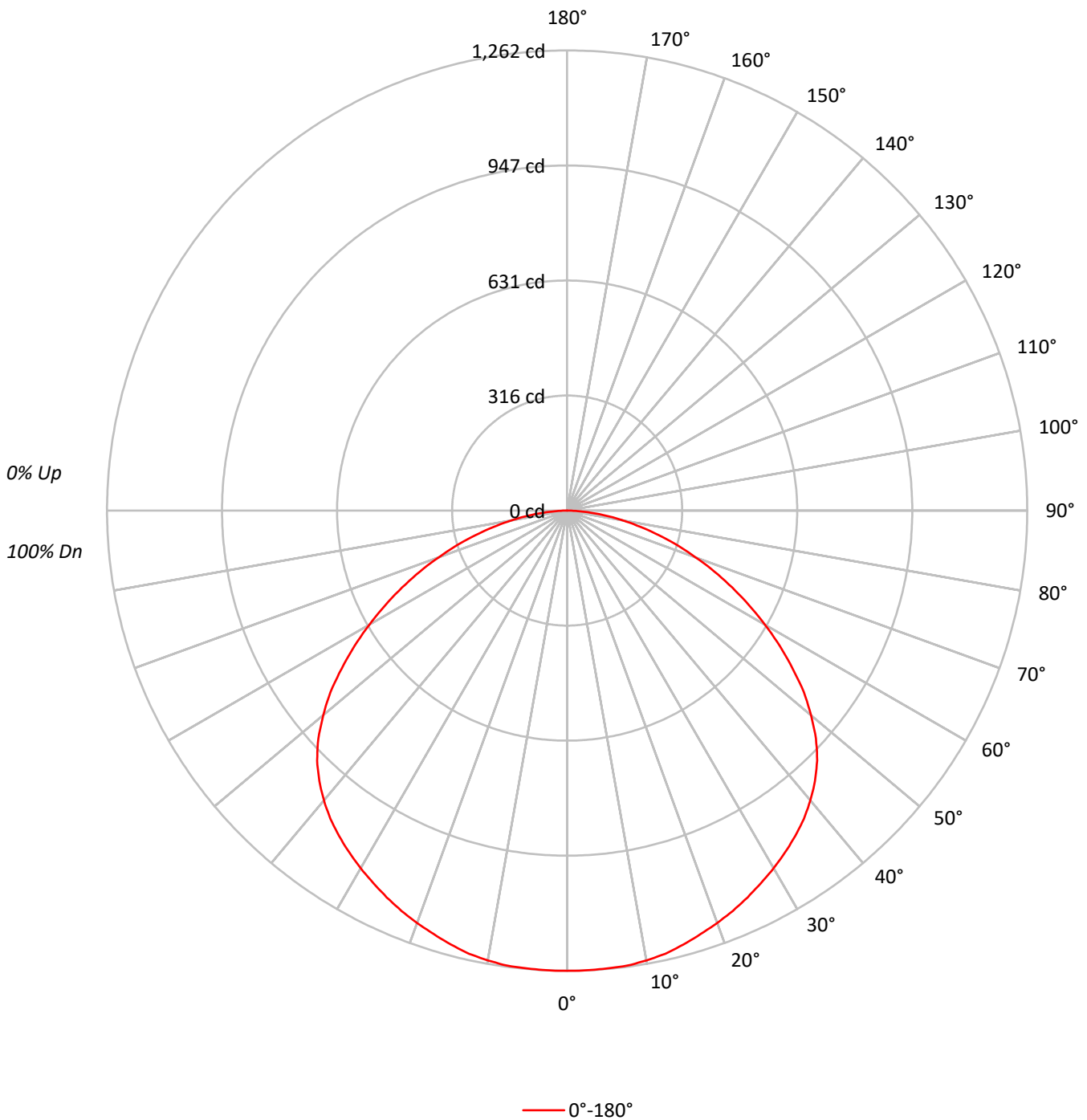
Lumens per Lamp: N/A
Luminaire Lumens: 3956.7 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10710
5°	10737
10°	10794
15°	10824
20°	10870
25°	10960
30°	11098
35°	11291
40°	11496
45°	11640
50°	11532
55°	11172
60°	10643
65°	10024
70°	9289
75°	8544
80°	7565
85°	6154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.0
10°-20°	348.1	8.8
20°-30°	540.4	13.7
30°-40°	682.5	17.3
40°-50°	745.1	18.8
50°-60°	674.2	17.0
60°-70°	494.7	12.5
70°-80°	276.3	7.0
80°-90°	75.2	1.9
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°	1008.6	25.5
0°-40°	1691.2	42.7
0°-60°	3110.5	78.6
0°-90°	3956.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1262	
5°	1260	120
15°	1232	348
25°	1170	540
35°	1090	683
45°	970	745
55°	755	674
65°	499	495
75°	261	276
85°	63	75
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1262.1
2.5°	1262.1
5°	1260.5
7.5°	1259.0
10°	1252.6
12.5°	1244.7
15°	1232.1
17.5°	1217.9
20°	1203.7
22.5°	1187.9
25°	1170.5
27.5°	1151.5
30°	1132.6
32.5°	1112.0
35°	1089.9
37.5°	1066.2
40°	1037.8
42.5°	1006.2
45°	969.9
47.5°	925.7
50°	873.5
52.5°	818.2
55°	755.1
57.5°	691.9
60°	627.1
62.5°	562.3
65°	499.2
67.5°	437.6
70°	374.4
72.5°	317.5
75°	260.6
77.5°	205.3
80°	154.8
82.5°	107.4
85°	63.2
87.5°	28.4
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	20.64	22.30	21.00	22.61	22.93	20.64	22.30	21.00	22.61	22.93
	3H	22.33	23.83	22.70	24.16	24.52	22.33	23.83	22.70	24.16	24.52
	4H	22.96	24.37	23.35	24.72	25.10	22.96	24.37	23.35	24.72	25.10
	6H	23.41	24.72	23.82	25.09	25.48	23.41	24.72	23.82	25.09	25.48
	8H	23.55	24.81	23.98	25.20	25.60	23.55	24.81	23.98	25.20	25.60
	12H	23.64	24.85	24.07	25.23	25.66	23.64	24.85	24.07	25.23	25.66
4H	2H	21.24	22.66	21.64	23.01	23.38	21.24	22.66	21.64	23.01	23.38
	3H	23.15	24.34	23.56	24.74	25.14	23.15	24.34	23.56	24.74	25.14
	4H	23.91	24.98	24.34	25.39	25.83	23.91	24.98	24.34	25.39	25.83
	6H	24.49	25.43	24.94	25.87	26.32	24.49	25.43	24.94	25.87	26.32
	8H	24.68	25.56	25.13	26.00	26.46	24.68	25.56	25.13	26.00	26.46
	12H	24.81	25.60	25.29	26.08	26.54	24.81	25.60	25.29	26.08	26.54
8H	4H	24.20	25.08	24.66	25.52	25.99	24.20	25.08	24.66	25.52	25.99
	6H	24.90	25.63	25.39	26.12	26.59	24.90	25.63	25.39	26.12	26.59
	8H	25.16	25.82	25.66	26.32	26.81	25.16	25.82	25.66	26.32	26.81
	12H	25.36	25.94	25.86	26.43	26.99	25.36	25.94	25.86	26.43	26.99
12H	4H	24.23	25.03	24.71	25.50	25.97	24.23	25.03	24.71	25.50	25.97
	6H	24.95	25.61	25.46	26.11	26.60	24.95	25.61	25.46	26.11	26.60
	8H	25.26	25.85	25.77	26.34	26.90	25.26	25.85	25.77	26.34	26.90