

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: P866135

Luminaire Tested: PRLX-2001-M-940-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866135
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-940-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

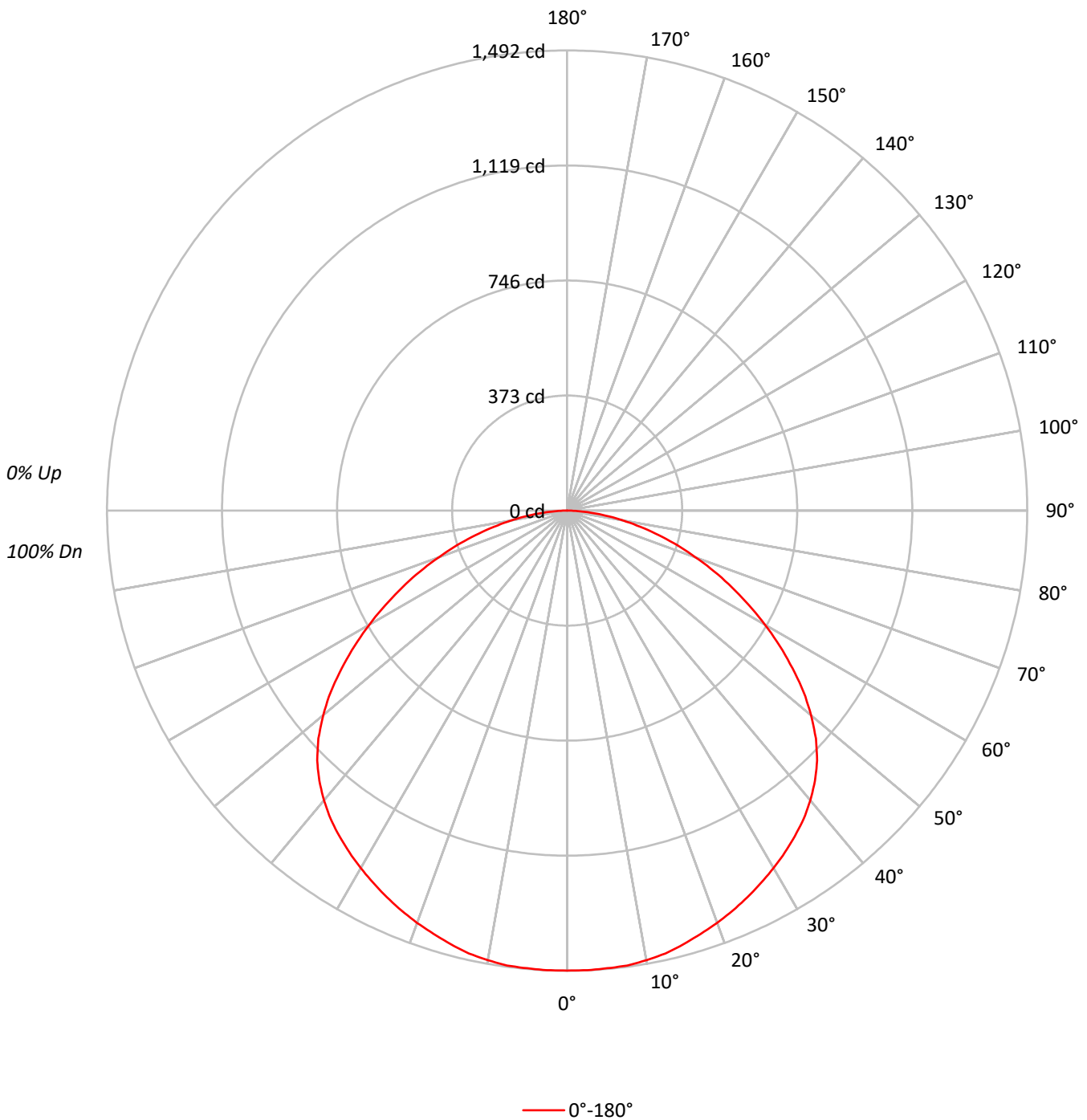
Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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°	12658
5°	12690
10°	12756
15°	12792
20°	12846
25°	12952
30°	13116
35°	13344
40°	13587
45°	13756
50°	13628
55°	13201
60°	12578
65°	11845
70°	10977
75°	10099
80°	8938
85°	7273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.0
10°-20°	411.4	8.8
20°-30°	638.6	13.7
30°-40°	806.7	17.3
40°-50°	880.6	18.8
50°-60°	796.8	17.0
60°-70°	584.6	12.5
70°-80°	326.6	7.0
80°-90°	88.9	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°	1192.0	25.5
0°-40°	1998.6	42.7
0°-60°	3676.0	78.6
0°-90°	4676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1492	
5°	1490	142
15°	1456	411
25°	1383	639
35°	1288	807
45°	1146	881
55°	892	797
65°	590	585
75°	308	327
85°	75	89
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1491.6
2.5°	1491.6
5°	1489.7
7.5°	1487.9
10°	1480.4
12.5°	1471.0
15°	1456.1
17.5°	1439.3
20°	1422.5
22.5°	1403.8
25°	1383.3
27.5°	1360.9
30°	1338.5
32.5°	1314.2
35°	1288.1
37.5°	1260.1
40°	1226.5
42.5°	1189.2
45°	1146.2
47.5°	1094.0
50°	1032.3
52.5°	967.0
55°	892.3
57.5°	817.7
60°	741.1
62.5°	664.6
65°	589.9
67.5°	517.1
70°	442.4
72.5°	375.2
75°	308.0
77.5°	242.7
80°	182.9
82.5°	126.9
85°	74.7
87.5°	33.6
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	21.22	22.88	21.58	23.20	23.51	21.22	22.88	21.58	23.20	23.51
	3H	22.91	24.41	23.28	24.74	25.10	22.91	24.41	23.28	24.74	25.10
	4H	23.54	24.95	23.93	25.30	25.68	23.54	24.95	23.93	25.30	25.68
	6H	23.99	25.30	24.40	25.67	26.06	23.99	25.30	24.40	25.67	26.06
	8H	24.13	25.39	24.56	25.78	26.18	24.13	25.39	24.56	25.78	26.18
	12H	24.22	25.43	24.65	25.81	26.24	24.22	25.43	24.65	25.81	26.24
4H	2H	21.82	23.24	22.22	23.59	23.96	21.82	23.24	22.22	23.59	23.96
	3H	23.73	24.92	24.14	25.32	25.72	23.73	24.92	24.14	25.32	25.72
	4H	24.49	25.56	24.92	25.97	26.41	24.49	25.56	24.92	25.97	26.41
	6H	25.07	26.01	25.52	26.45	26.90	25.07	26.01	25.52	26.45	26.90
	8H	25.26	26.14	25.72	26.58	27.04	25.26	26.14	25.72	26.58	27.04
	12H	25.39	26.18	25.87	26.66	27.12	25.39	26.18	25.87	26.66	27.12
8H	4H	24.78	25.66	25.24	26.11	26.57	24.78	25.66	25.24	26.11	26.57
	6H	25.48	26.21	25.97	26.70	27.17	25.48	26.21	25.97	26.70	27.17
	8H	25.74	26.40	26.24	26.90	27.39	25.74	26.40	26.24	26.90	27.39
	12H	25.94	26.52	26.44	27.01	27.57	25.94	26.52	26.44	27.01	27.57
12H	4H	24.81	25.61	25.29	26.08	26.55	24.81	25.61	25.29	26.08	26.55
	6H	25.53	26.19	26.04	26.70	27.18	25.53	26.19	26.04	26.70	27.18
	8H	25.84	26.43	26.35	26.92	27.48	25.84	26.43	26.35	26.92	27.48