

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: P865815

Luminaire Tested: PRLX-2004-S-935-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2004-S-935-05L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

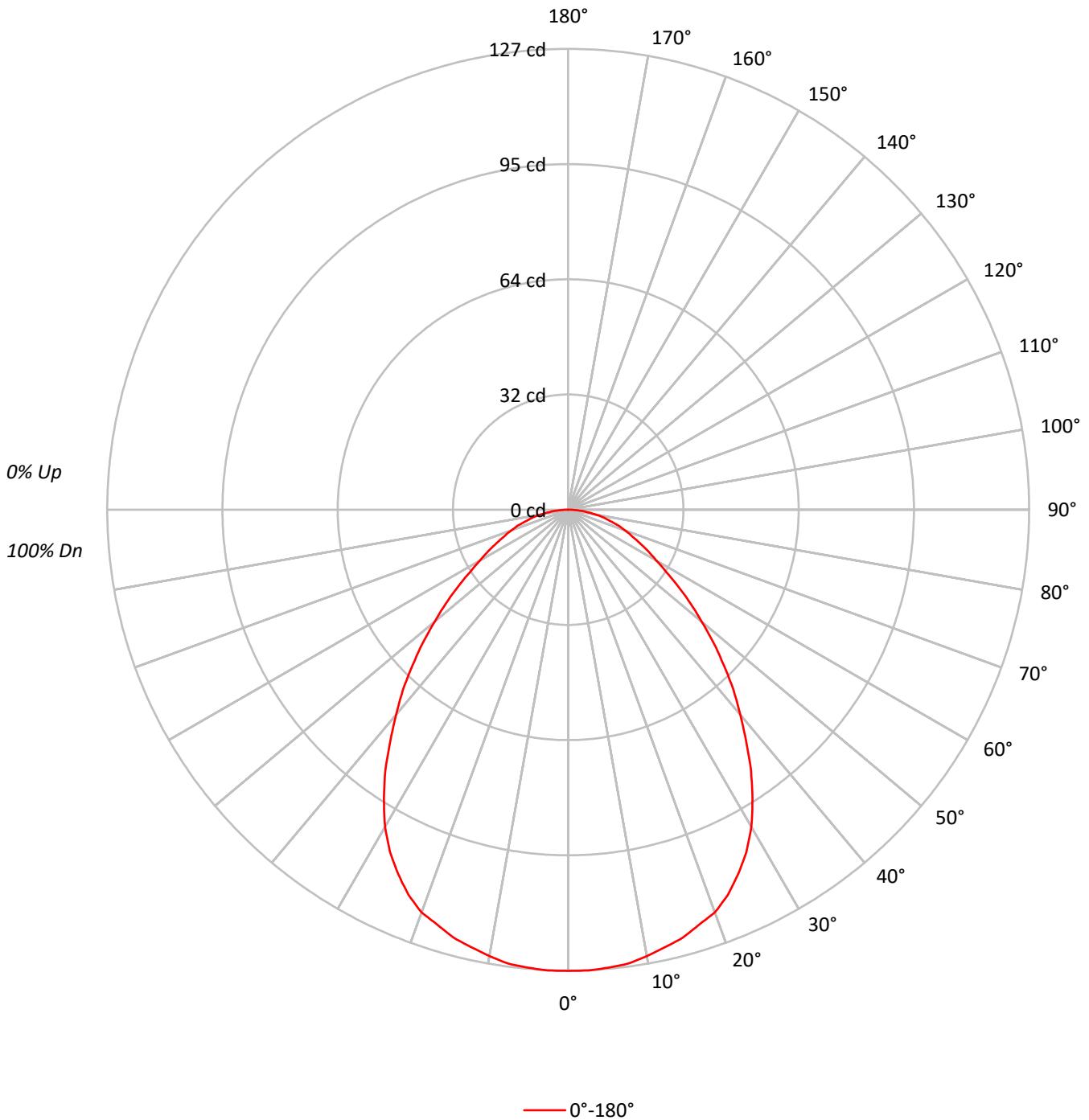
Lumens per Lamp: N/A
Luminaire Lumens: 270.7 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2073
5°	2074
10°	2069
15°	2062
20°	2050
25°	1994
30°	1900
35°	1748
40°	1569
45°	1398
50°	1218
55°	1055
60°	913
65°	837
70°	796
75°	744
80°	723
85°	674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1398 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	4.4
10°-20°	34.4	12.7
20°-30°	50.9	18.8
30°-40°	54.6	20.2
40°-50°	46.8	17.3
50°-60°	33.4	12.3
60°-70°	21.8	8.0
70°-80°	12.8	4.7
80°-90°	4.0	1.5
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°	97.3	35.9
0°-40°	152.0	56.1
0°-60°	232.2	85.8
0°-90°	270.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	127	
5°	127	12
15°	122	34
25°	111	51
35°	88	55
45°	61	47
55°	37	33
65°	22	22
75°	12	13
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	127.1
2.5°	127.1
5°	126.7
7.5°	126.2
10°	124.9
12.5°	123.5
15°	122.1
17.5°	119.9
20°	118.1
22.5°	114.9
25°	110.8
27.5°	106.3
30°	100.9
32.5°	94.5
35°	87.8
37.5°	80.5
40°	73.7
42.5°	67.4
45°	60.6
47.5°	54.3
50°	48.0
52.5°	42.5
55°	37.1
57.5°	32.1
60°	28.0
62.5°	24.9
65°	21.7
67.5°	19.0
70°	16.7
72.5°	14.5
75°	11.8
77.5°	10.0
80°	7.7
82.5°	5.4
85°	3.6
87.5°	1.8
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	11.09	12.58	11.46	12.90	13.21	11.09	12.58	11.46	12.90	13.21
	3H	12.62	13.96	13.00	14.29	14.65	12.62	13.96	13.00	14.29	14.65
	4H	13.24	14.50	13.64	14.85	15.23	13.24	14.50	13.64	14.85	15.23
	6H	13.77	14.93	14.18	15.29	15.69	13.77	14.93	14.18	15.29	15.69
	8H	13.94	15.04	14.36	15.43	15.83	13.94	15.04	14.36	15.43	15.83
	12H	14.06	15.12	14.49	15.50	15.93	14.06	15.12	14.49	15.50	15.93
4H	2H	11.59	12.85	11.99	13.19	13.57	11.59	12.85	11.99	13.19	13.57
	3H	13.38	14.42	13.79	14.82	15.22	13.38	14.42	13.79	14.82	15.22
	4H	14.13	15.07	14.57	15.49	15.93	14.13	15.07	14.57	15.49	15.93
	6H	14.80	15.62	15.26	16.06	16.52	14.80	15.62	15.26	16.06	16.52
	8H	15.02	15.79	15.49	16.23	16.70	15.02	15.79	15.49	16.23	16.70
	12H	15.20	15.88	15.68	16.36	16.83	15.20	15.88	15.68	16.36	16.83
8H	4H	14.43	15.19	14.89	15.64	16.11	14.43	15.19	14.89	15.64	16.11
	6H	15.23	15.86	15.73	16.35	16.83	15.23	15.86	15.73	16.35	16.83
	8H	15.53	16.10	16.04	16.61	17.10	15.53	16.10	16.04	16.61	17.10
	12H	15.79	16.30	16.30	16.79	17.35	15.79	16.30	16.30	16.79	17.35
12H	4H	14.46	15.14	14.94	15.62	16.09	14.46	15.14	14.94	15.62	16.09
	6H	15.29	15.86	15.80	16.37	16.86	15.29	15.86	15.80	16.37	16.86
	8H	15.65	16.15	16.16	16.64	17.21	15.65	16.15	16.16	16.64	17.21