

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: P865727

Luminaire Tested: PRLX-2002-S-940-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-S-940-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

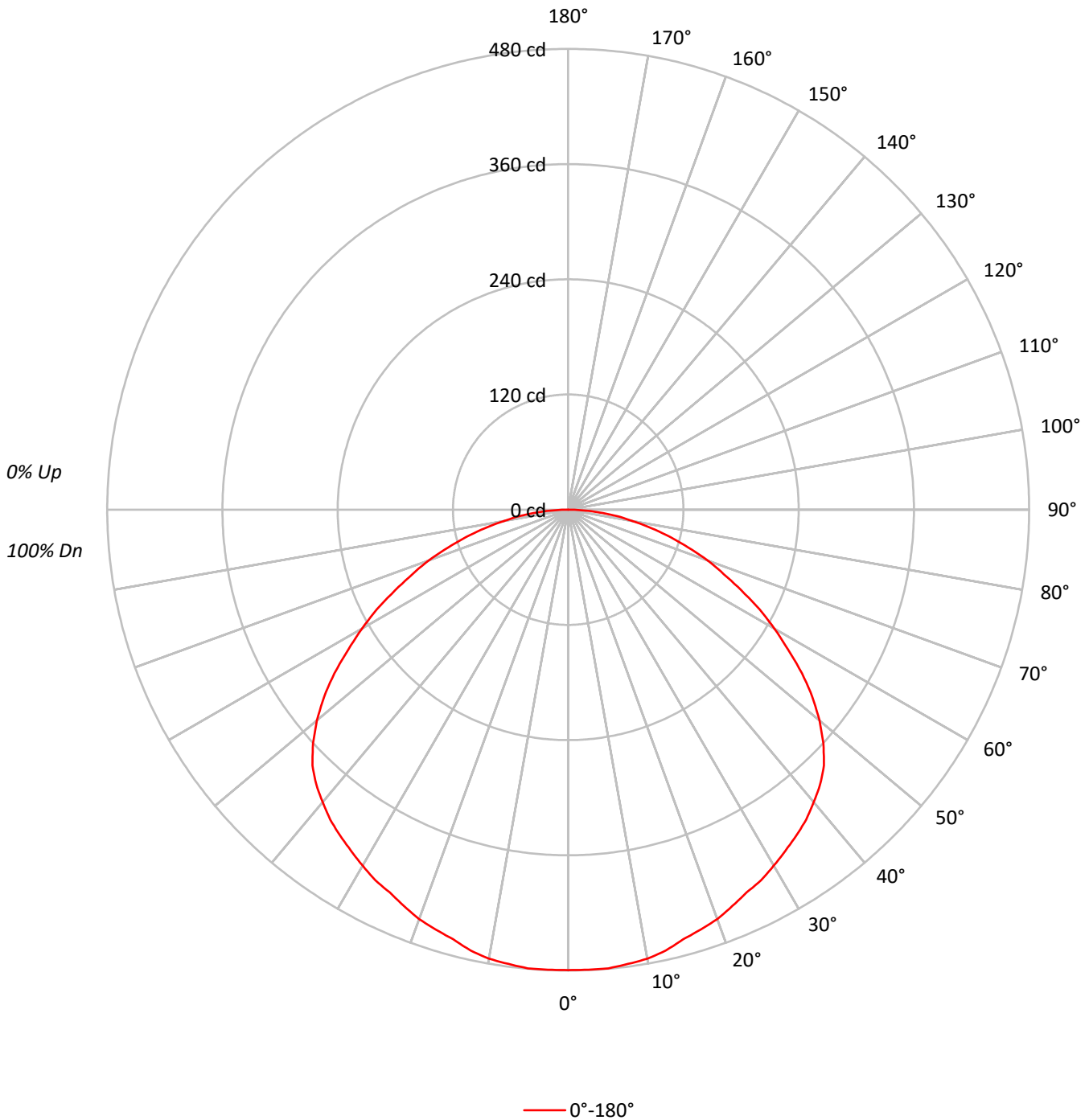
Lumens per Lamp: N/A
Luminaire Lumens: 1544.4 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		51	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9009
5°	9043
10°	9058
15°	9008
20°	9071
25°	9115
30°	9286
35°	9496
40°	9752
45°	10004
50°	9980
55°	9730
60°	9317
65°	8836
70°	8480
75°	7983
80°	7334
85°	7069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 10018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.0
10°-20°	131.2	8.5
20°-30°	203.6	13.2
30°-40°	259.6	16.8
40°-50°	288.8	18.7
50°-60°	264.7	17.1
60°-70°	197.9	12.8
70°-80°	116.3	7.5
80°-90°	36.6	2.4
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°	380.5	24.6
0°-40°	640.0	41.4
0°-60°	1193.6	77.3
0°-90°	1544.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	480	
5°	480	46
15°	463	131
25°	440	204
35°	414	260
45°	377	289
55°	297	265
65°	199	198
75°	110	116
85°	33	37
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	479.6
2.5°	479.6
5°	479.6
7.5°	477.2
10°	474.9
12.5°	470.2
15°	463.2
17.5°	458.5
20°	453.8
22.5°	446.8
25°	439.8
27.5°	435.1
30°	428.1
32.5°	421.1
35°	414.1
37.5°	407.1
40°	397.7
42.5°	388.3
45°	376.6
47.5°	360.3
50°	341.5
52.5°	320.5
55°	297.1
57.5°	271.4
60°	248.0
62.5°	224.6
65°	198.8
67.5°	175.5
70°	154.4
72.5°	131.0
75°	110.0
77.5°	88.9
80°	67.8
82.5°	51.5
85°	32.8
87.5°	16.4
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	20.14	21.83	20.51	22.14	22.45	20.14	21.83	20.51	22.14	22.45
	3H	21.93	23.45	22.30	23.78	24.14	21.93	23.45	22.30	23.78	24.14
	4H	22.62	24.06	23.02	24.41	24.78	22.62	24.06	23.02	24.41	24.78
	6H	23.16	24.49	23.57	24.86	25.25	23.16	24.49	23.57	24.86	25.25
	8H	23.35	24.63	23.78	25.02	25.42	23.35	24.63	23.78	25.02	25.42
	12H	23.50	24.73	23.93	25.11	25.54	23.50	24.73	23.93	25.11	25.54
4H	2H	20.77	22.20	21.16	22.55	22.93	20.77	22.20	21.16	22.55	22.93
	3H	22.79	24.00	23.20	24.39	24.79	22.79	24.00	23.20	24.39	24.79
	4H	23.62	24.71	24.05	25.13	25.56	23.62	24.71	24.05	25.13	25.56
	6H	24.29	25.25	24.74	25.69	26.14	24.29	25.25	24.74	25.69	26.14
	8H	24.54	25.44	25.00	25.89	26.35	24.54	25.44	25.00	25.89	26.35
	12H	24.75	25.56	25.23	26.03	26.50	24.75	25.56	25.23	26.03	26.50
8H	4H	23.95	24.85	24.41	25.29	25.76	23.95	24.85	24.41	25.29	25.76
	6H	24.76	25.51	25.25	25.99	26.47	24.76	25.51	25.25	25.99	26.47
	8H	25.10	25.77	25.60	26.28	26.76	25.10	25.77	25.60	26.28	26.76
	12H	25.39	25.99	25.90	26.48	27.04	25.39	25.99	25.90	26.48	27.04
12H	4H	24.00	24.81	24.47	25.28	25.75	24.00	24.81	24.47	25.28	25.75
	6H	24.83	25.50	25.33	26.01	26.49	24.83	25.50	25.33	26.01	26.49
	8H	25.24	25.84	25.74	26.33	26.88	25.24	25.84	25.74	26.33	26.88