

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: P866325

Luminaire Tested: PRLX-2002-M-935-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

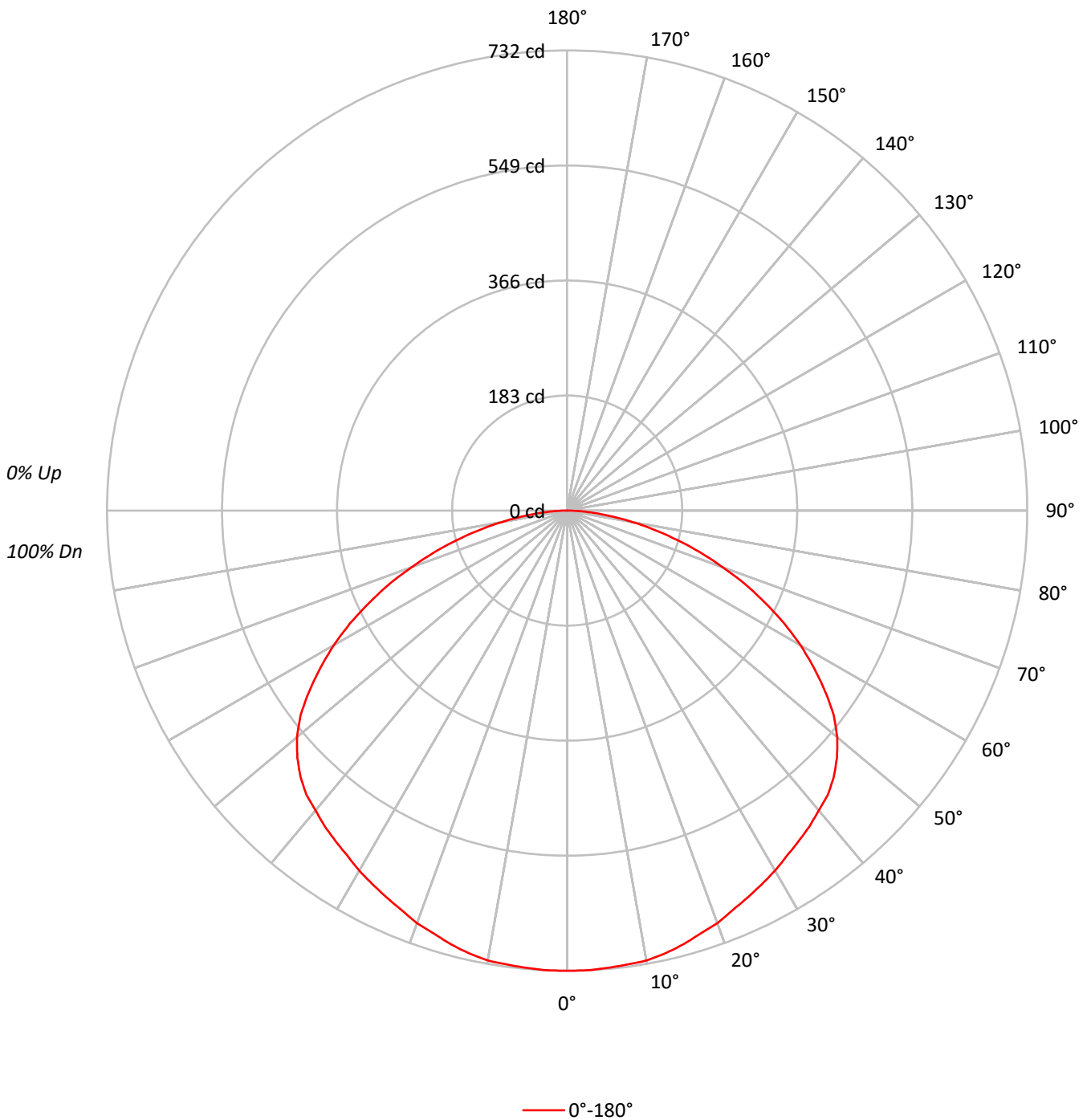
Lumens per Lamp: N/A
Luminaire Lumens: 2483.6 lumens
Efficiency: N/A
Efficacy: 42.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5824
5°	5831
10°	5871
15°	5883
20°	5914
25°	5961
30°	6076
35°	6235
40°	6466
45°	6747
50°	6942
55°	6948
60°	6820
65°	6542
70°	6113
75°	5585
80°	4847
85°	3861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6984 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	2.8
10°-20°	201.8	8.1
20°-30°	313.9	12.6
30°-40°	402.8	16.2
40°-50°	461.6	18.6
50°-60°	446.5	18.0
60°-70°	343.9	13.8
70°-80°	192.7	7.8
80°-90°	50.8	2.0
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°	585.3	23.6
0°-40°	988.2	39.8
0°-60°	1896.2	76.3
0°-90°	2483.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2483.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	732	
5°	730	70
15°	714	202
25°	679	314
35°	642	403
45°	600	462
55°	501	446
65°	348	344
75°	182	193
85°	42	51
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	732.0
2.5°	732.0
5°	730.2
7.5°	728.5
10°	726.7
12.5°	721.4
15°	714.3
17.5°	705.5
20°	698.5
22.5°	687.9
25°	679.1
27.5°	670.2
30°	661.4
32.5°	650.8
35°	642.0
37.5°	633.2
40°	622.6
42.5°	613.8
45°	599.7
47.5°	582.1
50°	560.9
52.5°	534.4
55°	500.9
57.5°	465.6
60°	428.6
62.5°	389.8
65°	347.5
67.5°	306.9
70°	262.8
72.5°	222.2
75°	181.7
77.5°	142.9
80°	105.8
82.5°	72.3
85°	42.3
87.5°	19.4
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	19.24	20.94	19.60	21.25	21.57	19.24	20.94	19.60	21.25	21.57
	3H	21.05	22.59	21.42	22.91	23.27	21.05	22.59	21.42	22.91	23.27
	4H	21.70	23.15	22.10	23.50	23.88	21.70	23.15	22.10	23.50	23.88
	6H	22.16	23.51	22.57	23.88	24.27	22.16	23.51	22.57	23.88	24.27
	8H	22.30	23.59	22.72	23.98	24.38	22.30	23.59	22.72	23.98	24.38
	12H	22.39	23.63	22.82	24.01	24.44	22.39	23.63	22.82	24.01	24.44
4H	2H	19.89	21.34	20.29	21.69	22.07	19.89	21.34	20.29	21.69	22.07
	3H	21.91	23.13	22.32	23.53	23.93	21.91	23.13	22.32	23.53	23.93
	4H	22.68	23.80	23.12	24.21	24.64	22.68	23.80	23.12	24.21	24.64
	6H	23.27	24.24	23.72	24.68	25.13	23.27	24.24	23.72	24.68	25.13
	8H	23.45	24.36	23.91	24.81	25.27	23.45	24.36	23.91	24.81	25.27
	12H	23.58	24.40	24.06	24.88	25.34	23.58	24.40	24.06	24.88	25.34
8H	4H	22.99	23.91	23.45	24.35	24.81	22.99	23.91	23.45	24.35	24.81
	6H	23.69	24.45	24.18	24.94	25.41	23.69	24.45	24.18	24.94	25.41
	8H	23.94	24.62	24.45	25.13	25.61	23.94	24.62	24.45	25.13	25.61
	12H	24.13	24.74	24.64	25.22	25.78	24.13	24.74	24.64	25.22	25.78
12H	4H	23.03	23.85	23.51	24.32	24.79	23.03	23.85	23.51	24.32	24.79
	6H	23.74	24.43	24.25	24.93	25.41	23.74	24.43	24.25	24.93	25.41
	8H	24.05	24.65	24.55	25.14	25.70	24.05	24.65	24.55	25.14	25.70