

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: P866196

Luminaire Tested: PRLX-2002-M-927-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-65L-G-U-S-X-X-BLAK-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

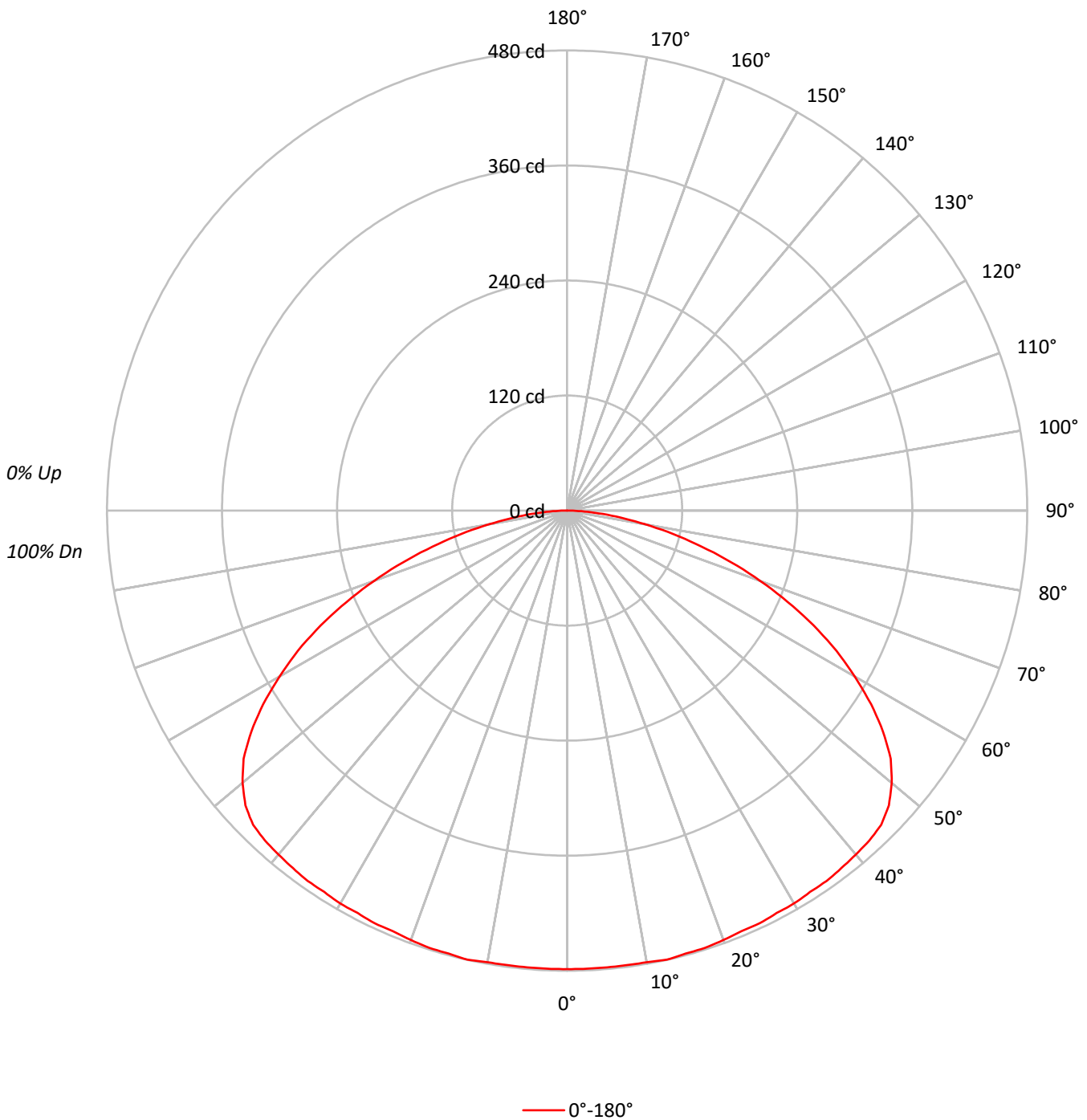
Lumens per Lamp: N/A
Luminaire Lumens: 1884.2 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3805
5°	3820
10°	3864
15°	3939
20°	4035
25°	4170
30°	4348
35°	4581
40°	4865
45°	5214
50°	5471
55°	5581
60°	5510
65°	5341
70°	4987
75°	4460
80°	3780
85°	3012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	2.4
10°-20°	135.6	7.2
20°-30°	219.6	11.7
30°-40°	295.9	15.7
40°-50°	356.1	18.9
50°-60°	357.6	19.0
60°-70°	279.5	14.8
70°-80°	154.8	8.2
80°-90°	39.5	2.1
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°	400.9	21.3
0°-40°	696.7	37.0
0°-60°	1410.4	74.9
0°-90°	1884.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	478	
5°	478	46
15°	478	136
25°	475	220
35°	472	296
45°	463	356
55°	402	358
65°	284	280
75°	145	155
85°	33	39
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	478.3
2.5°	478.3
5°	478.3
7.5°	478.3
10°	478.3
12.5°	479.9
15°	478.3
17.5°	478.3
20°	476.6
22.5°	475.0
25°	475.0
27.5°	473.3
30°	473.3
32.5°	471.7
35°	471.7
37.5°	470.0
40°	468.4
42.5°	466.7
45°	463.4
47.5°	455.2
50°	442.0
52.5°	425.5
55°	402.4
57.5°	376.0
60°	346.3
62.5°	316.7
65°	283.7
67.5°	249.0
70°	214.4
72.5°	179.8
75°	145.1
77.5°	113.8
80°	82.5
82.5°	56.1
85°	33.0
87.5°	14.8
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	18.67	20.40	19.03	20.72	21.03	18.67	20.40	19.03	20.72	21.03
	3H	20.50	22.08	20.88	22.40	22.76	20.50	22.08	20.88	22.40	22.76
	4H	21.14	22.63	21.54	22.98	23.35	21.14	22.63	21.54	22.98	23.35
	6H	21.59	22.97	22.00	23.33	23.72	21.59	22.97	22.00	23.33	23.72
	8H	21.72	23.04	22.14	23.43	23.82	21.72	23.04	22.14	23.43	23.82
	12H	21.80	23.07	22.23	23.45	23.88	21.80	23.07	22.23	23.45	23.88
4H	2H	19.34	20.83	19.74	21.17	21.55	19.34	20.83	19.74	21.17	21.55
	3H	21.38	22.63	21.79	23.03	23.43	21.38	22.63	21.79	23.03	23.43
	4H	22.14	23.28	22.57	23.69	24.12	22.14	23.28	22.57	23.69	24.12
	6H	22.70	23.70	23.15	24.13	24.59	22.70	23.70	23.15	24.13	24.59
	8H	22.87	23.80	23.33	24.25	24.71	22.87	23.80	23.33	24.25	24.71
	12H	22.99	23.83	23.47	24.31	24.77	22.99	23.83	23.47	24.31	24.77
8H	4H	22.45	23.38	22.90	23.82	24.28	22.45	23.38	22.90	23.82	24.28
	6H	23.11	23.89	23.60	24.38	24.85	23.11	23.89	23.60	24.38	24.85
	8H	23.35	24.04	23.85	24.55	25.03	23.35	24.04	23.85	24.55	25.03
	12H	23.53	24.15	24.03	24.64	25.19	23.53	24.15	24.03	24.64	25.19
12H	4H	22.48	23.32	22.96	23.79	24.26	22.48	23.32	22.96	23.79	24.26
	6H	23.16	23.86	23.67	24.36	24.85	23.16	23.86	23.67	24.36	24.85
	8H	23.45	24.07	23.95	24.56	25.11	23.45	24.07	23.95	24.56	25.11