

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: P866004

Luminaire Tested: PRLX-2001-M-930-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-65L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

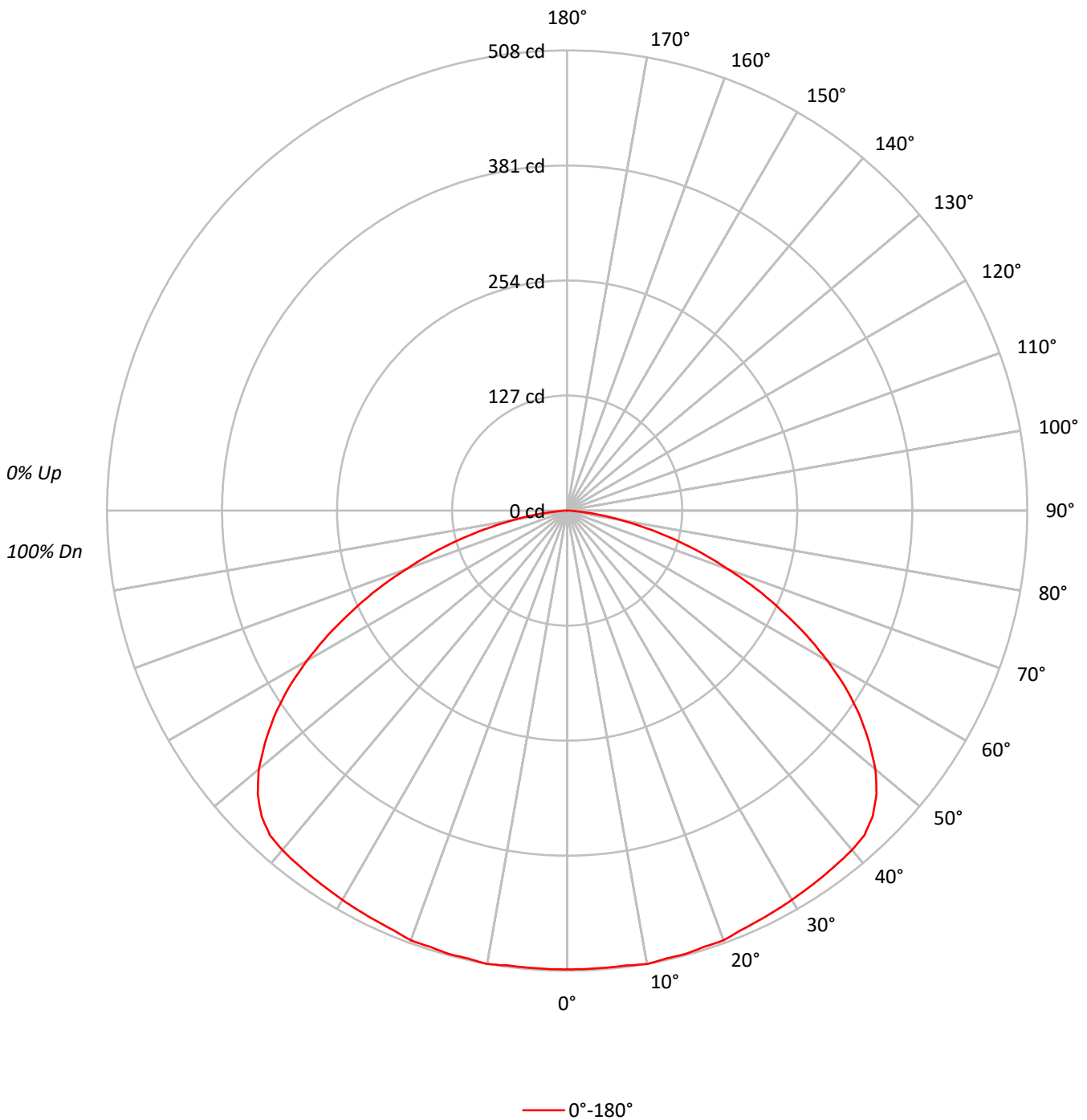
Lumens per Lamp: N/A
Luminaire Lumens: 1860.1 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4298
5°	4315
10°	4380
15°	4450
20°	4559
25°	4678
30°	4862
35°	5104
40°	5419
45°	5726
50°	5866
55°	5832
60°	5633
65°	5241
70°	4674
75°	3967
80°	2957
85°	1519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	2.6
10°-20°	143.4	7.7
20°-30°	231.2	12.4
30°-40°	309.4	16.6
40°-50°	366.0	19.7
50°-60°	350.6	18.8
60°-70°	258.4	13.9
70°-80°	129.3	7.0
80°-90°	23.3	1.3
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°	423.0	22.7
0°-40°	732.5	39.4
0°-60°	1449.0	77.9
0°-90°	1860.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	506	
5°	506	48
15°	506	143
25°	500	231
35°	493	309
45°	477	366
55°	394	351
65°	261	258
75°	121	129
85°	16	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	506.5
2.5°	506.5
5°	506.5
7.5°	506.5
10°	508.3
12.5°	506.5
15°	506.5
17.5°	504.8
20°	504.8
22.5°	501.3
25°	499.6
27.5°	497.9
30°	496.2
32.5°	494.4
35°	492.7
37.5°	491.0
40°	489.2
42.5°	485.8
45°	477.1
47.5°	463.3
50°	444.3
52.5°	420.1
55°	394.2
57.5°	364.8
60°	331.9
62.5°	297.4
65°	261.0
67.5°	226.5
70°	188.4
72.5°	155.6
75°	121.0
77.5°	89.9
80°	60.5
82.5°	36.3
85°	15.6
87.5°	3.5
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	18.77	20.47	19.13	20.78	21.09	18.77	20.47	19.13	20.78	21.09
	3H	20.38	21.92	20.76	22.24	22.60	20.38	21.92	20.76	22.24	22.60
	4H	20.90	22.35	21.30	22.70	23.07	20.90	22.35	21.30	22.70	23.07
	6H	21.20	22.55	21.61	22.91	23.30	21.20	22.55	21.61	22.91	23.30
	8H	21.26	22.55	21.68	22.93	23.33	21.26	22.55	21.68	22.93	23.33
	12H	21.28	22.51	21.71	22.89	23.32	21.28	22.51	21.71	22.89	23.32
4H	2H	19.37	20.82	19.76	21.16	21.54	19.37	20.82	19.76	21.16	21.54
	3H	21.18	22.39	21.59	22.79	23.19	21.18	22.39	21.59	22.79	23.19
	4H	21.80	22.90	22.23	23.31	23.75	21.80	22.90	22.23	23.31	23.75
	6H	22.20	23.16	22.65	23.59	24.05	22.20	23.16	22.65	23.59	24.05
	8H	22.28	23.18	22.74	23.62	24.08	22.28	23.18	22.74	23.62	24.08
	12H	22.32	23.13	22.80	23.60	24.07	22.32	23.13	22.80	23.60	24.07
8H	4H	22.04	22.94	22.50	23.38	23.84	22.04	22.94	22.50	23.38	23.84
	6H	22.51	23.25	23.00	23.74	24.21	22.51	23.25	23.00	23.74	24.21
	8H	22.63	23.29	23.14	23.80	24.28	22.63	23.29	23.14	23.80	24.28
	12H	22.69	23.28	23.20	23.77	24.33	22.69	23.28	23.20	23.77	24.33
12H	4H	22.06	22.86	22.53	23.33	23.80	22.06	22.86	22.53	23.33	23.80
	6H	22.52	23.19	23.03	23.70	24.18	22.52	23.19	23.03	23.70	24.18
	8H	22.68	23.27	23.19	23.76	24.32	22.68	23.27	23.19	23.76	24.32