

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: P865996

Luminaire Tested: PRLX-2001-M-930-55L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865996
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-930-55L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

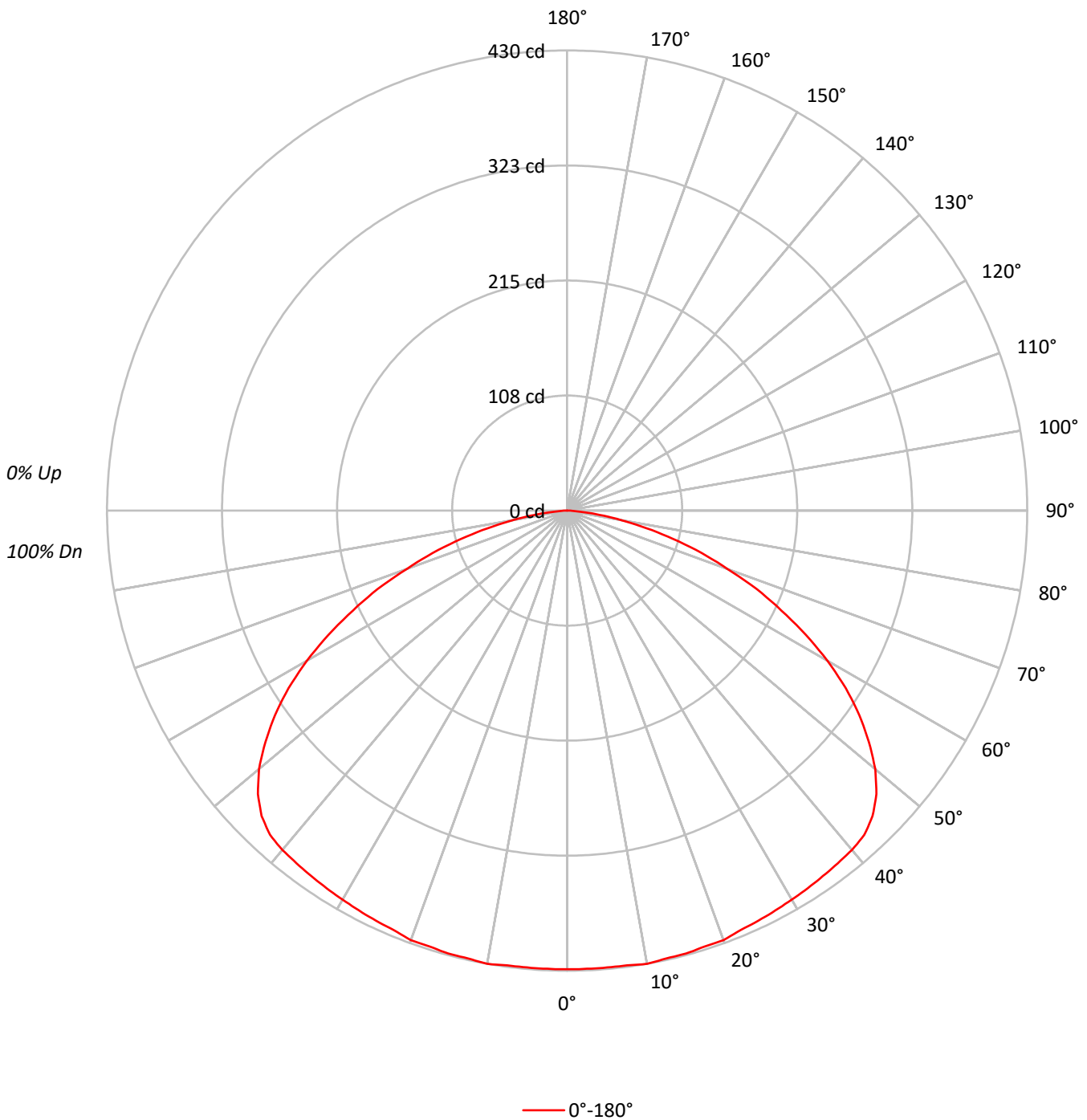
Lumens per Lamp: N/A
Luminaire Lumens: 1573.9 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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°	3637
5°	3651
10°	3706
15°	3765
20°	3857
25°	3959
30°	4114
35°	4319
40°	4586
45°	4845
50°	4963
55°	4934
60°	4767
65°	4436
70°	3955
75°	3357
80°	2502
85°	1285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4963 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	2.6
10°-20°	121.3	7.7
20°-30°	195.7	12.4
30°-40°	261.8	16.6
40°-50°	309.7	19.7
50°-60°	296.6	18.8
60°-70°	218.7	13.9
70°-80°	109.5	7.0
80°-90°	19.7	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°	358.0	22.7
0°-40°	619.8	39.4
0°-60°	1226.1	77.9
0°-90°	1573.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	429	41
15°	429	121
25°	423	196
35°	417	262
45°	404	310
55°	334	297
65°	221	219
75°	102	109
85°	13	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	428.6
2.5°	428.6
5°	428.6
7.5°	428.6
10°	430.1
12.5°	428.6
15°	428.6
17.5°	427.1
20°	427.1
22.5°	424.2
25°	422.8
27.5°	421.3
30°	419.8
32.5°	418.4
35°	416.9
37.5°	415.4
40°	414.0
42.5°	411.1
45°	403.7
47.5°	392.0
50°	375.9
52.5°	355.5
55°	333.5
57.5°	308.7
60°	280.9
62.5°	251.6
65°	220.9
67.5°	191.6
70°	159.4
72.5°	131.7
75°	102.4
77.5°	76.1
80°	51.2
82.5°	30.7
85°	13.2
87.5°	2.9
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	18.19	19.89	18.55	20.20	20.51	18.19	19.89	18.55	20.20	20.51
	3H	19.80	21.34	20.18	21.66	22.02	19.80	21.34	20.18	21.66	22.02
	4H	20.32	21.77	20.72	22.12	22.49	20.32	21.77	20.72	22.12	22.49
	6H	20.62	21.97	21.03	22.33	22.72	20.62	21.97	21.03	22.33	22.72
	8H	20.68	21.97	21.10	22.35	22.75	20.68	21.97	21.10	22.35	22.75
	12H	20.70	21.93	21.13	22.31	22.74	20.70	21.93	21.13	22.31	22.74
4H	2H	18.79	20.24	19.18	20.58	20.96	18.79	20.24	19.18	20.58	20.96
	3H	20.60	21.81	21.01	22.21	22.61	20.60	21.81	21.01	22.21	22.61
	4H	21.22	22.32	21.65	22.73	23.17	21.22	22.32	21.65	22.73	23.17
	6H	21.62	22.58	22.07	23.01	23.47	21.62	22.58	22.07	23.01	23.47
	8H	21.70	22.60	22.16	23.04	23.50	21.70	22.60	22.16	23.04	23.50
	12H	21.74	22.55	22.22	23.02	23.49	21.74	22.55	22.22	23.02	23.49
8H	4H	21.46	22.36	21.92	22.80	23.26	21.46	22.36	21.92	22.80	23.26
	6H	21.93	22.67	22.42	23.16	23.63	21.93	22.67	22.42	23.16	23.63
	8H	22.05	22.71	22.56	23.22	23.70	22.05	22.71	22.56	23.22	23.70
	12H	22.11	22.70	22.62	23.19	23.75	22.11	22.70	22.62	23.19	23.75
12H	4H	21.48	22.28	21.95	22.75	23.22	21.48	22.28	21.95	22.75	23.22
	6H	21.94	22.61	22.45	23.12	23.60	21.94	22.61	22.45	23.12	23.60
	8H	22.10	22.69	22.61	23.18	23.74	22.10	22.69	22.61	23.18	23.74