

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: P866252

Luminaire Tested: PRLX-2002-M-930-55L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866252
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-930-55L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

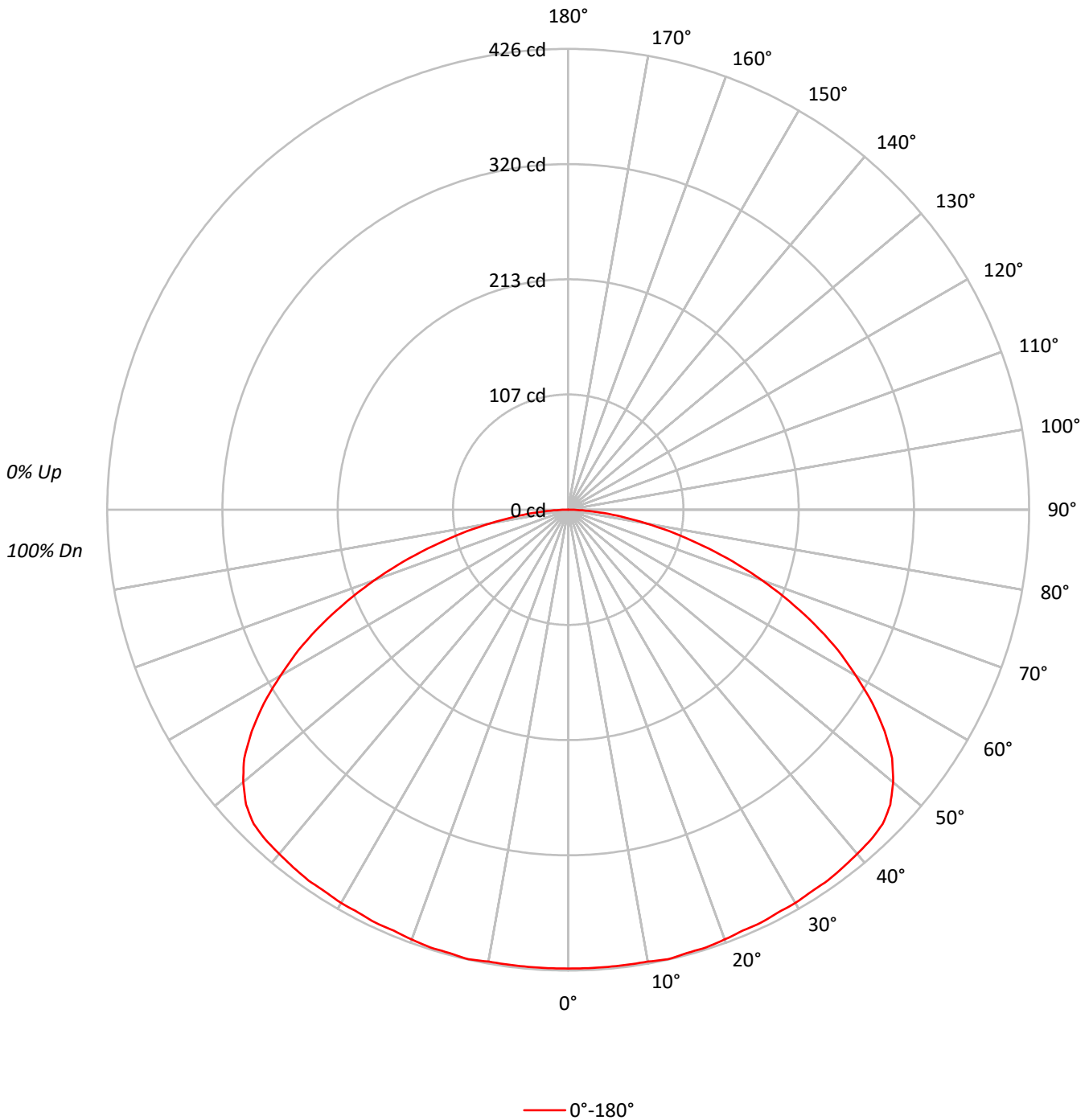
Lumens per Lamp: N/A
Luminaire Lumens: 1671.2 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P866252

CATALOG NUMBER: PRLX-2002-M-930-55L-G-U-S-X-X-BLAK-X

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°	3375
5°	3388
10°	3427
15°	3494
20°	3580
25°	3698
30°	3857
35°	4064
40°	4314
45°	4624
50°	4852
55°	4950
60°	4888
65°	4736
70°	4424
75°	3956
80°	3349
85°	2675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	2.4
10°-20°	120.3	7.2
20°-30°	194.8	11.7
30°-40°	262.4	15.7
40°-50°	315.8	18.9
50°-60°	317.2	19.0
60°-70°	247.9	14.8
70°-80°	137.2	8.2
80°-90°	35.0	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°	355.6	21.3
0°-40°	618.0	37.0
0°-60°	1251.0	74.9
0°-90°	1671.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	424	
5°	424	40
15°	424	120
25°	421	195
35°	418	262
45°	411	316
55°	357	317
65°	252	248
75°	129	137
85°	29	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	424.2
2.5°	424.2
5°	424.2
7.5°	424.2
10°	424.2
12.5°	425.7
15°	424.2
17.5°	424.2
20°	422.8
22.5°	421.3
25°	421.3
27.5°	419.8
30°	419.8
32.5°	418.4
35°	418.4
37.5°	416.9
40°	415.4
42.5°	414.0
45°	411.0
47.5°	403.7
50°	392.0
52.5°	377.4
55°	356.9
57.5°	333.5
60°	307.2
62.5°	280.9
65°	251.6
67.5°	220.9
70°	190.2
72.5°	159.4
75°	128.7
77.5°	100.9
80°	73.1
82.5°	49.7
85°	29.3
87.5°	13.2
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	18.25	19.99	18.61	20.30	20.61	18.25	19.99	18.61	20.30	20.61
	3H	20.08	21.66	20.46	21.98	22.34	20.08	21.66	20.46	21.98	22.34
	4H	20.73	22.21	21.12	22.56	22.93	20.73	22.21	21.12	22.56	22.93
	6H	21.17	22.55	21.58	22.91	23.30	21.17	22.55	21.58	22.91	23.30
	8H	21.30	22.62	21.72	23.01	23.41	21.30	22.62	21.72	23.01	23.41
	12H	21.38	22.65	21.81	23.03	23.46	21.38	22.65	21.81	23.03	23.46
4H	2H	18.92	20.41	19.32	20.76	21.13	18.92	20.41	19.32	20.76	21.13
	3H	20.96	22.22	21.37	22.61	23.01	20.96	22.22	21.37	22.61	23.01
	4H	21.72	22.86	22.15	23.27	23.70	21.72	22.86	22.15	23.27	23.70
	6H	22.28	23.28	22.73	23.72	24.17	22.28	23.28	22.73	23.72	24.17
	8H	22.45	23.39	22.91	23.83	24.29	22.45	23.39	22.91	23.83	24.29
	12H	22.57	23.42	23.05	23.89	24.36	22.57	23.42	23.05	23.89	24.36
8H	4H	22.03	22.96	22.49	23.40	23.87	22.03	22.96	22.49	23.40	23.87
	6H	22.70	23.47	23.19	23.96	24.43	22.70	23.47	23.19	23.96	24.43
	8H	22.93	23.63	23.43	24.13	24.61	22.93	23.63	23.43	24.13	24.61
	12H	23.11	23.73	23.61	24.22	24.77	23.11	23.73	23.61	24.22	24.77
12H	4H	22.06	22.91	22.54	23.38	23.85	22.06	22.91	22.54	23.38	23.85
	6H	22.74	23.44	23.25	23.95	24.43	22.74	23.44	23.25	23.95	24.43
	8H	23.03	23.65	23.53	24.14	24.69	23.03	23.65	23.53	24.14	24.69