

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: P866384

Luminaire Tested: PRLX-2002-M-940-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-55L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

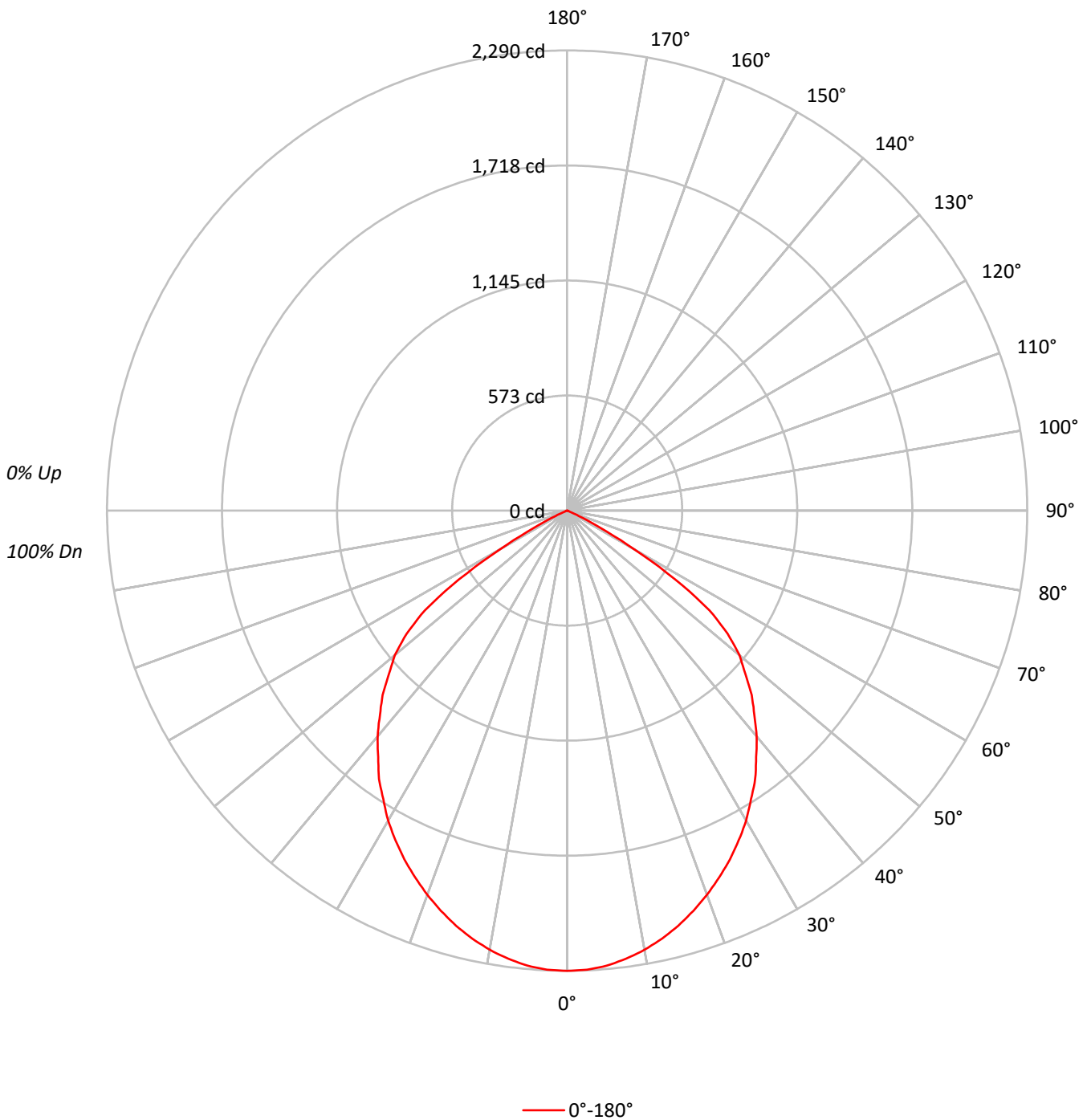
Lumens per Lamp: N/A
Luminaire Lumens: 4557.3 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18222
5°	18153
10°	17929
15°	17616
20°	17225
25°	16820
30°	16369
35°	15847
40°	15241
45°	14608
50°	13842
55°	11985
60°	6132
65°	1190
70°	109
75°	144
80°	147
85°	146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	4.7
10°-20°	602.2	13.2
20°-30°	881.8	19.3
30°-40°	1017.6	22.3
40°-50°	997.7	21.9
50°-60°	725.0	15.9
60°-70°	111.1	2.4
70°-80°	4.4	0.1
80°-90°	2.2	0.0
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°	1699.3	37.3
0°-40°	2716.9	59.6
0°-60°	4439.6	97.4
0°-90°	4557.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4557.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2290	
5°	2273	215
15°	2139	602
25°	1916	882
35°	1632	1018
45°	1298	998
55°	864	725
65°	63	111
75°	5	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2290.4
2.5°	2287.3
5°	2273.1
7.5°	2249.4
10°	2219.4
12.5°	2181.5
15°	2138.8
17.5°	2088.3
20°	2034.5
22.5°	1976.1
25°	1916.1
27.5°	1849.7
30°	1781.8
32.5°	1702.8
35°	1631.7
37.5°	1544.9
40°	1467.5
42.5°	1379.0
45°	1298.4
47.5°	1202.1
50°	1118.4
52.5°	1006.2
55°	864.1
57.5°	638.2
60°	385.4
62.5°	183.2
65°	63.2
67.5°	15.8
70°	4.7
72.5°	4.7
75°	4.7
77.5°	3.2
80°	3.2
82.5°	3.2
85°	1.6
87.5°	1.6
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	19.52	20.93	19.88	21.25	21.56	19.52	20.93	19.88	21.25	21.56
	3H	19.40	20.64	19.78	20.97	21.34	19.40	20.64	19.78	20.97	21.34
	4H	19.34	20.49	19.74	20.84	21.22	19.34	20.49	19.74	20.84	21.22
	6H	19.26	20.32	19.68	20.69	21.08	19.26	20.32	19.68	20.69	21.08
	8H	19.22	20.22	19.65	20.62	21.02	19.22	20.22	19.65	20.62	21.02
	12H	19.19	20.14	19.62	20.52	20.95	19.19	20.14	19.62	20.52	20.95
4H	2H	19.36	20.51	19.76	20.86	21.24	19.36	20.51	19.76	20.86	21.24
	3H	19.24	20.17	19.66	20.57	20.97	19.24	20.17	19.66	20.57	20.97
	4H	19.16	19.98	19.60	20.40	20.84	19.16	19.98	19.60	20.40	20.84
	6H	19.09	19.79	19.55	20.24	20.70	19.09	19.79	19.55	20.24	20.70
	8H	19.03	19.69	19.50	20.14	20.61	19.03	19.69	19.50	20.14	20.61
	12H	18.99	19.57	19.47	20.05	20.53	18.99	19.57	19.47	20.05	20.53
8H	4H	19.03	19.69	19.50	20.14	20.61	19.03	19.69	19.50	20.14	20.61
	6H	18.93	19.47	19.43	19.97	20.45	18.93	19.47	19.43	19.97	20.45
	8H	18.86	19.36	19.38	19.87	20.36	18.86	19.36	19.38	19.87	20.36
	12H	18.81	19.26	19.33	19.75	20.32	18.81	19.26	19.33	19.75	20.32
12H	4H	18.98	19.57	19.47	20.05	20.53	18.98	19.57	19.47	20.05	20.53
	6H	18.86	19.36	19.38	19.87	20.36	18.86	19.36	19.38	19.87	20.36
	8H	18.81	19.26	19.32	19.75	20.32	18.81	19.26	19.32	19.75	20.32