

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: P866949

Luminaire Tested: PRLX-2002-L-927-32L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-32L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

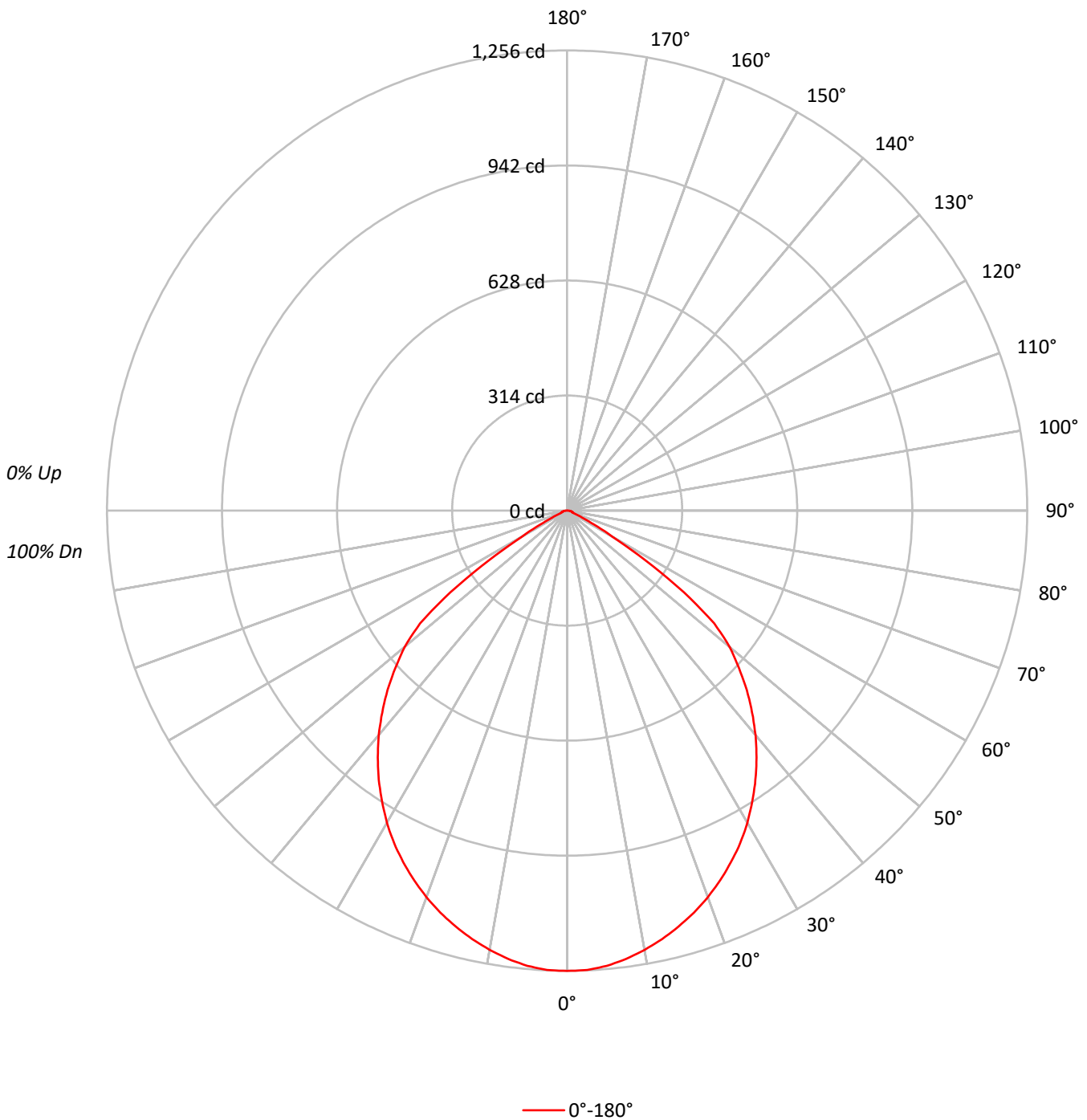
Lumens per Lamp: N/A
Luminaire Lumens: 2439.3 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	94	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	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6199
5°	6176
10°	6099
15°	6003
20°	5895
25°	5763
30°	5605
35°	5398
40°	5151
45°	4837
50°	4445
55°	3344
60°	1407
65°	518
70°	238
75°	261
80°	301
85°	351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.8
10°-20°	331.3	13.6
20°-30°	487.3	20.0
30°-40°	559.7	22.9
40°-50°	533.1	21.9
50°-60°	333.9	13.7
60°-70°	55.2	2.3
70°-80°	14.4	0.6
80°-90°	6.3	0.3
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°	936.7	38.4
0°-40°	1496.4	61.3
0°-60°	2363.4	96.9
0°-90°	2439.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1256	
5°	1247	118
15°	1175	331
25°	1059	487
35°	896	560
45°	693	533
55°	389	334
65°	44	55
75°	14	14
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1256.4
2.5°	1255.1
5°	1247.1
7.5°	1234.5
10°	1217.4
12.5°	1198.0
15°	1175.3
17.5°	1150.5
20°	1122.8
22.5°	1092.1
25°	1058.7
27.5°	1023.3
30°	983.8
32.5°	940.9
35°	896.2
37.5°	849.2
40°	799.8
42.5°	747.3
45°	693.3
47.5°	635.7
50°	579.1
52.5°	505.7
55°	388.7
57.5°	251.2
60°	142.6
62.5°	80.9
65°	44.4
67.5°	20.9
70°	16.5
72.5°	15.2
75°	13.7
77.5°	12.1
80°	10.6
82.5°	8.5
85°	6.2
87.5°	3.1
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	13.56	14.95	13.92	15.26	15.58	13.56	14.95	13.92	15.26	15.58
	3H	13.47	14.70	13.85	15.03	15.39	13.47	14.70	13.85	15.03	15.39
	4H	13.43	14.57	13.83	14.92	15.30	13.43	14.57	13.83	14.92	15.30
	6H	13.39	14.43	13.80	14.80	15.20	13.39	14.43	13.80	14.80	15.20
	8H	13.37	14.36	13.80	14.75	15.15	13.37	14.36	13.80	14.75	15.15
	12H	13.35	14.29	13.78	14.67	15.10	13.35	14.29	13.78	14.67	15.10
4H	2H	13.43	14.56	13.83	14.92	15.30	13.43	14.56	13.83	14.92	15.30
	3H	13.36	14.28	13.77	14.68	15.08	13.36	14.28	13.77	14.68	15.08
	4H	13.32	14.13	13.75	14.55	14.99	13.32	14.13	13.75	14.55	14.99
	6H	13.30	14.00	13.76	14.45	14.91	13.30	14.00	13.76	14.45	14.91
	8H	13.28	13.93	13.74	14.38	14.85	13.28	13.93	13.74	14.38	14.85
	12H	13.26	13.85	13.75	14.33	14.80	13.26	13.85	13.75	14.33	14.80
8H	4H	13.21	13.87	13.68	14.31	14.78	13.21	13.87	13.68	14.31	14.78
	6H	13.19	13.73	13.69	14.23	14.71	13.19	13.73	13.69	14.23	14.71
	8H	13.17	13.67	13.69	14.18	14.67	13.17	13.67	13.69	14.18	14.67
	12H	13.18	13.62	13.69	14.12	14.69	13.18	13.62	13.69	14.12	14.69
12H	4H	13.17	13.75	13.65	14.23	14.71	13.17	13.75	13.65	14.23	14.71
	6H	13.14	13.63	13.66	14.14	14.63	13.14	13.63	13.66	14.14	14.63
	8H	13.15	13.59	13.66	14.08	14.65	13.15	13.59	13.66	14.08	14.65