

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: P866825

Luminaire Tested: PRLX-2001-L-935-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-935-32L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

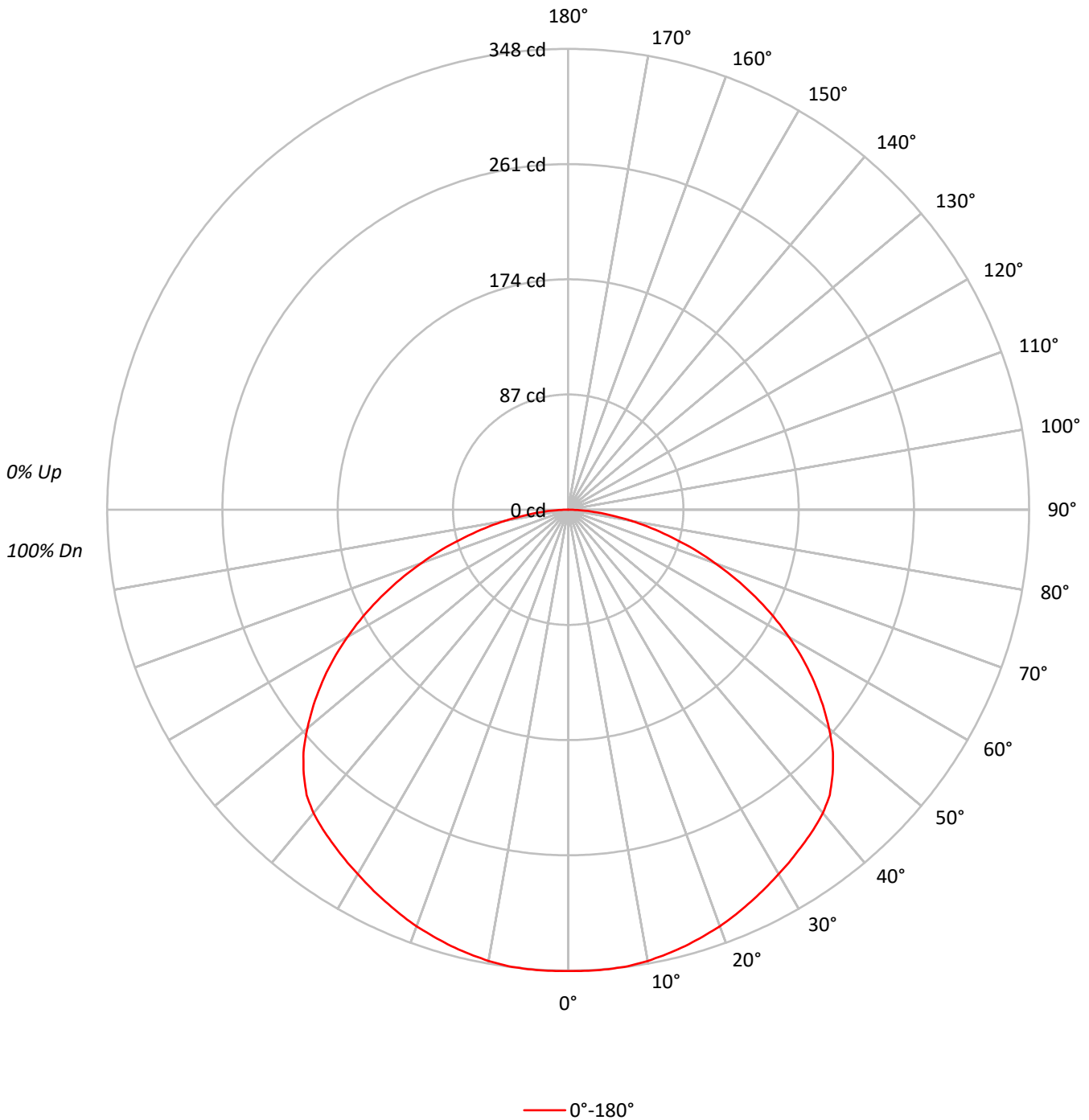
Lumens per Lamp: N/A
Luminaire Lumens: 1157.5 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38
7	63	50	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30
9	55	41	33	27	53	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1904
5°	1911
10°	1921
15°	1931
20°	1948
25°	1969
30°	2006
35°	2061
40°	2135
45°	2183
50°	2187
55°	2160
60°	2106
65°	2018
70°	1886
75°	1713
80°	1521
85°	1236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 2194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	2.9
10°-20°	96.4	8.3
20°-30°	150.9	13.0
30°-40°	193.7	16.7
40°-50°	217.1	18.8
50°-60°	202.2	17.5
60°-70°	154.1	13.3
70°-80°	86.5	7.5
80°-90°	23.2	2.0
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°	280.5	24.2
0°-40°	474.2	41.0
0°-60°	893.6	77.2
0°-90°	1157.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	348	
5°	348	33
15°	341	96
25°	326	151
35°	309	194
45°	282	217
55°	227	202
65°	156	154
75°	81	87
85°	20	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	348.3
2.5°	348.5
5°	348.3
7.5°	347.7
10°	346.0
12.5°	343.7
15°	341.1
17.5°	338.0
20°	334.8
22.5°	330.8
25°	326.5
27.5°	322.3
30°	317.7
32.5°	313.4
35°	308.8
37.5°	304.3
40°	299.1
42.5°	292.3
45°	282.3
47.5°	271.1
50°	257.1
52.5°	242.3
55°	226.6
57.5°	210.3
60°	192.6
62.5°	174.6
65°	156.0
67.5°	137.1
70°	118.0
72.5°	99.7
75°	81.1
77.5°	64.3
80°	48.3
82.5°	32.9
85°	19.7
87.5°	8.6
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	15.08	16.77	15.44	17.08	17.39	15.08	16.77	15.44	17.08	17.39
	3H	16.86	18.39	17.24	18.72	19.08	16.86	18.39	17.24	18.72	19.08
	4H	17.51	18.95	17.90	19.30	19.67	17.51	18.95	17.90	19.30	19.67
	6H	17.97	19.31	18.39	19.68	20.07	17.97	19.31	18.39	19.68	20.07
	8H	18.12	19.40	18.54	19.79	20.18	18.12	19.40	18.54	19.79	20.18
	12H	18.21	19.44	18.64	19.82	20.25	18.21	19.44	18.64	19.82	20.25
4H	2H	15.72	17.16	16.12	17.51	17.88	15.72	17.16	16.12	17.51	17.88
	3H	17.72	18.93	18.13	19.33	19.73	17.72	18.93	18.13	19.33	19.73
	4H	18.49	19.58	18.92	20.00	20.43	18.49	19.58	18.92	20.00	20.43
	6H	19.08	20.04	19.53	20.48	20.93	19.08	20.04	19.53	20.48	20.93
	8H	19.27	20.17	19.73	20.61	21.07	19.27	20.17	19.73	20.61	21.07
	12H	19.40	20.21	19.88	20.68	21.15	19.40	20.21	19.88	20.68	21.15
8H	4H	18.79	19.69	19.25	20.13	20.60	18.79	19.69	19.25	20.13	20.60
	6H	19.50	20.25	19.99	20.74	21.21	19.50	20.25	19.99	20.74	21.21
	8H	19.76	20.43	20.26	20.93	21.42	19.76	20.43	20.26	20.93	21.42
	12H	19.96	20.55	20.46	21.04	21.60	19.96	20.55	20.46	21.04	21.60
12H	4H	18.83	19.64	19.31	20.11	20.58	18.83	19.64	19.31	20.11	20.58
	6H	19.55	20.23	20.06	20.73	21.22	19.55	20.23	20.06	20.73	21.22
	8H	19.86	20.46	20.37	20.95	21.51	19.86	20.46	20.37	20.95	21.51