

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: P867065

Luminaire Tested: PRLX-2002-L-935-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-133L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

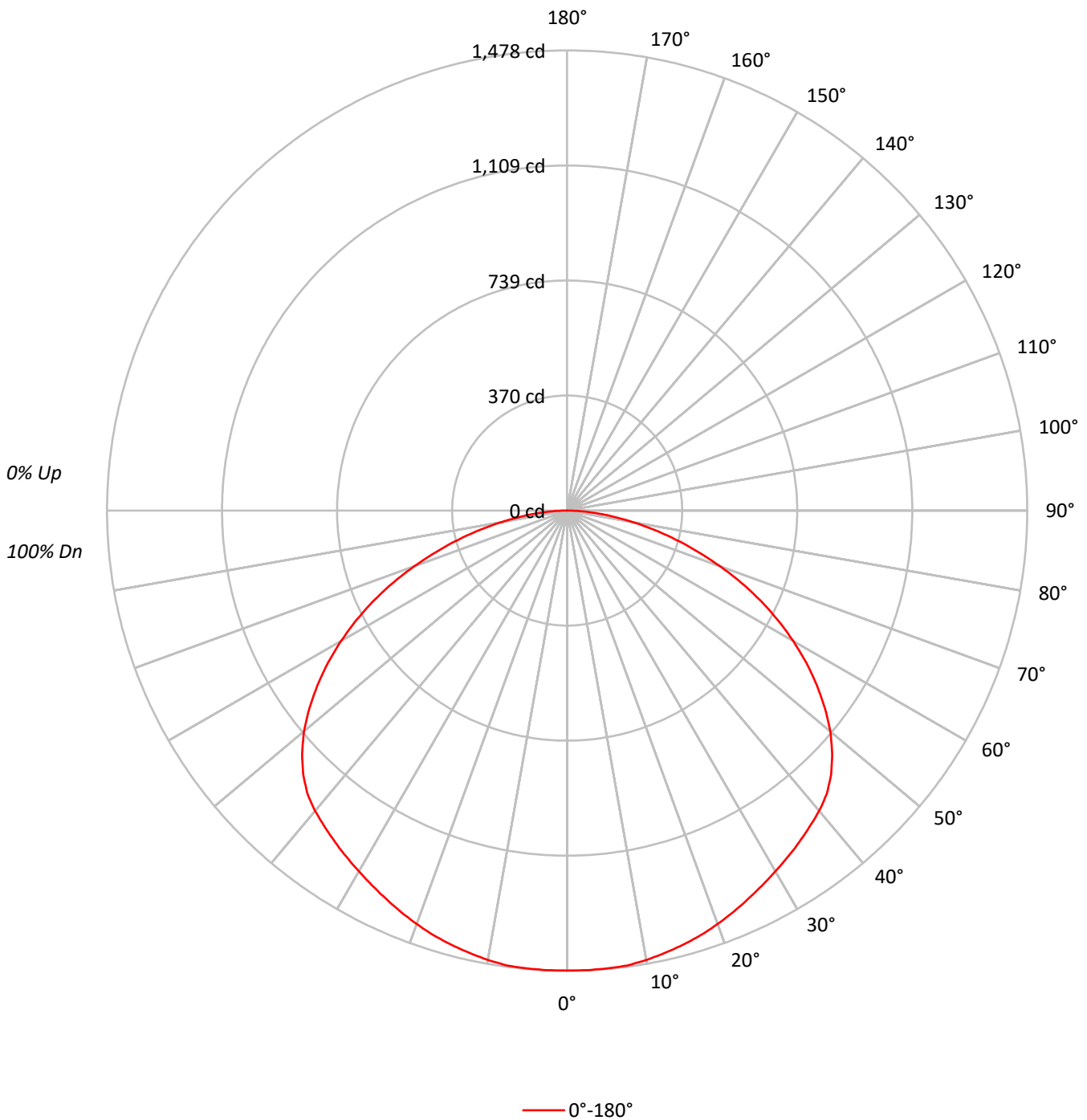
Lumens per Lamp: N/A
Luminaire Lumens: 4962.6 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7290
5°	7312
10°	7343
15°	7370
20°	7419
25°	7492
30°	7623
35°	7830
40°	8111
45°	8364
50°	8469
55°	8425
60°	8277
65°	8012
70°	7529
75°	6905
80°	6163
85°	5061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 8469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.8
10°-20°	407.9	8.2
20°-30°	635.9	12.8
30°-40°	815.3	16.4
40°-50°	921.7	18.6
50°-60°	873.8	17.6
60°-70°	676.9	13.6
70°-80°	384.9	7.8
80°-90°	105.7	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°	1184.5	23.9
0°-40°	1999.8	40.3
0°-60°	3795.2	76.5
0°-90°	4962.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4962.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1478	
5°	1476	141
15°	1443	408
25°	1376	636
35°	1300	815
45°	1199	922
55°	979	874
65°	686	677
75°	362	385
85°	89	106
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1477.5
2.5°	1477.5
5°	1476.3
7.5°	1473.9
10°	1465.6
12.5°	1454.8
15°	1442.9
17.5°	1429.8
20°	1413.1
22.5°	1395.3
25°	1376.2
27.5°	1357.1
30°	1338.1
32.5°	1319.0
35°	1300.0
37.5°	1279.7
40°	1259.4
42.5°	1234.4
45°	1198.7
47.5°	1154.6
50°	1103.3
52.5°	1043.8
55°	979.4
57.5°	911.5
60°	838.8
62.5°	763.8
65°	686.3
67.5°	605.3
70°	521.9
72.5°	440.9
75°	362.2
77.5°	287.2
80°	216.9
82.5°	150.1
85°	89.4
87.5°	40.5
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	19.85	21.54	20.21	21.86	22.17	19.85	21.54	20.21	21.86	22.17
	3H	21.69	23.22	22.06	23.55	23.91	21.69	23.22	22.06	23.55	23.91
	4H	22.35	23.80	22.75	24.15	24.53	22.35	23.80	22.75	24.15	24.53
	6H	22.84	24.19	23.25	24.55	24.94	22.84	24.19	23.25	24.55	24.94
	8H	23.00	24.28	23.42	24.67	25.07	23.00	24.28	23.42	24.67	25.07
	12H	23.10	24.33	23.52	24.71	25.14	23.10	24.33	23.52	24.71	25.14
4H	2H	20.51	21.96	20.91	22.31	22.68	20.51	21.96	20.91	22.31	22.68
	3H	22.56	23.78	22.97	24.18	24.57	22.56	23.78	22.97	24.18	24.57
	4H	23.35	24.46	23.78	24.87	25.30	23.35	24.46	23.78	24.87	25.30
	6H	23.97	24.94	24.42	25.37	25.83	23.97	24.94	24.42	25.37	25.83
	8H	24.17	25.08	24.63	25.52	25.98	24.17	25.08	24.63	25.52	25.98
	12H	24.31	25.13	24.79	25.60	26.07	24.31	25.13	24.79	25.60	26.07
8H	4H	23.67	24.58	24.13	25.02	25.48	23.67	24.58	24.13	25.02	25.48
	6H	24.40	25.16	24.89	25.65	26.12	24.40	25.16	24.89	25.65	26.12
	8H	24.68	25.36	25.18	25.86	26.34	24.68	25.36	25.18	25.86	26.34
	12H	24.89	25.49	25.39	25.98	26.54	24.89	25.49	25.39	25.98	26.54
12H	4H	23.71	24.53	24.19	25.00	25.47	23.71	24.53	24.19	25.00	25.47
	6H	24.46	25.14	24.97	25.65	26.13	24.46	25.14	24.97	25.65	26.13
	8H	24.79	25.39	25.29	25.88	26.44	24.79	25.39	25.29	25.88	26.44