

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: P867113

Luminaire Tested: PRLX-2002-L-940-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867113
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-940-100L-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 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

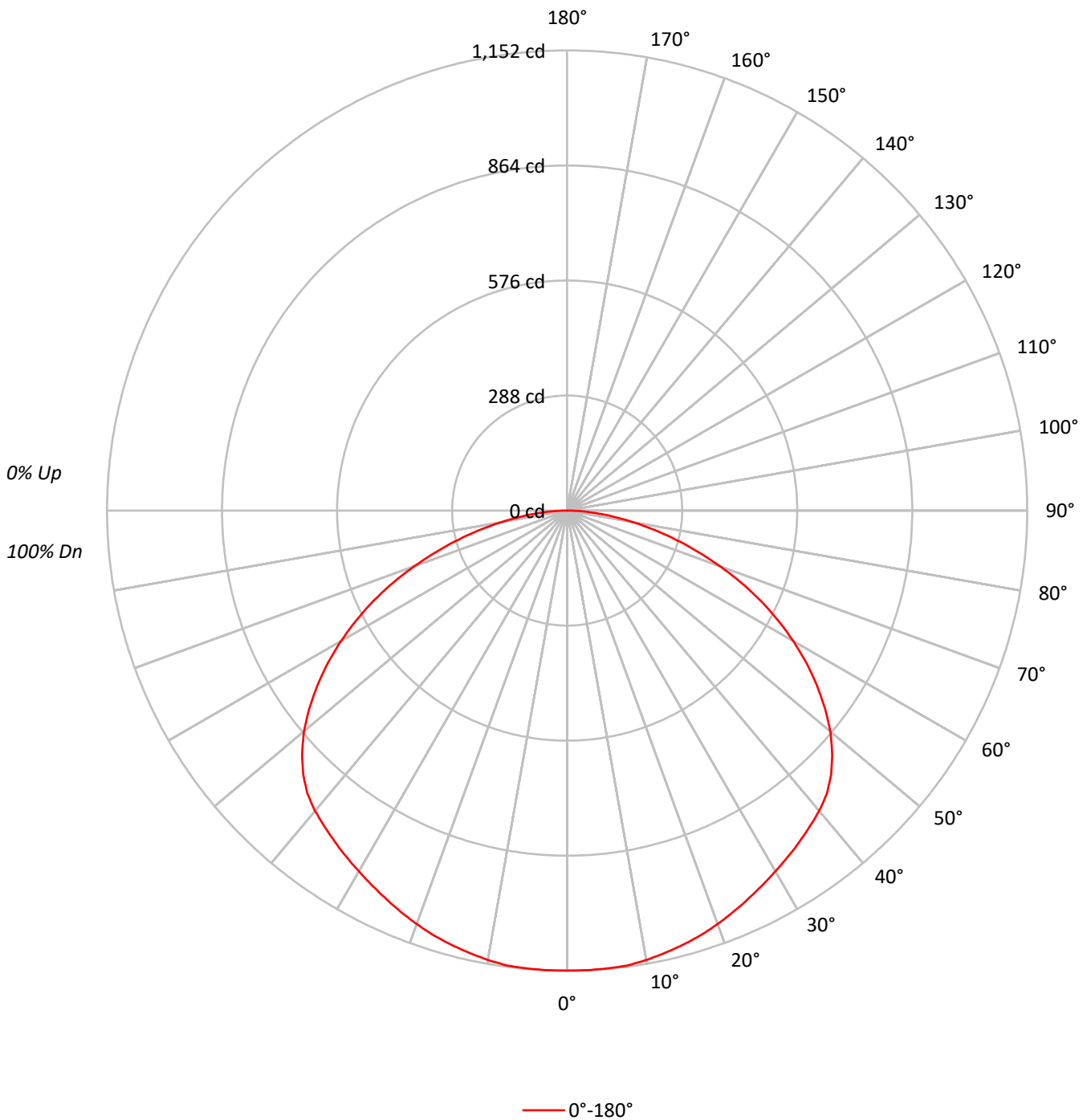
Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	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°	5682
5°	5699
10°	5723
15°	5745
20°	5783
25°	5839
30°	5941
35°	6103
40°	6322
45°	6519
50°	6601
55°	6567
60°	6451
65°	6245
70°	5868
75°	5381
80°	4802
85°	3946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	2.8
10°-20°	318.0	8.2
20°-30°	495.6	12.8
30°-40°	635.4	16.4
40°-50°	718.4	18.6
50°-60°	681.0	17.6
60°-70°	527.6	13.6
70°-80°	299.9	7.8
80°-90°	82.4	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°	923.2	23.9
0°-40°	1558.6	40.3
0°-60°	2958.1	76.5
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1152	
5°	1151	110
15°	1125	318
25°	1073	496
35°	1013	635
45°	934	718
55°	763	681
65°	535	528
75°	282	300
85°	70	82
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1151.6
2.5°	1151.6
5°	1150.7
7.5°	1148.8
10°	1142.3
12.5°	1133.9
15°	1124.7
17.5°	1114.4
20°	1101.4
22.5°	1087.5
25°	1072.6
27.5°	1057.8
30°	1042.9
32.5°	1028.1
35°	1013.2
37.5°	997.4
40°	981.6
42.5°	962.1
45°	934.3
47.5°	899.9
50°	860.0
52.5°	813.5
55°	763.4
57.5°	710.5
60°	653.8
62.5°	595.3
65°	534.9
67.5°	471.8
70°	406.8
72.5°	343.6
75°	282.3
77.5°	223.8
80°	169.0
82.5°	117.0
85°	69.7
87.5°	31.6
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	18.98	20.68	19.35	20.99	21.31	18.98	20.68	19.35	20.99	21.31
	3H	20.82	22.36	21.20	22.68	23.04	20.82	22.36	21.20	22.68	23.04
	4H	21.49	22.94	21.89	23.29	23.66	21.49	22.94	21.89	23.29	23.66
	6H	21.98	23.32	22.39	23.69	24.08	21.98	23.32	22.39	23.69	24.08
	8H	22.13	23.42	22.55	23.81	24.20	22.13	23.42	22.55	23.81	24.20
	12H	22.23	23.47	22.66	23.85	24.28	22.23	23.47	22.66	23.85	24.28
4H	2H	19.64	21.10	20.04	21.44	21.82	19.64	21.10	20.04	21.44	21.82
	3H	21.69	22.91	22.10	23.31	23.71	21.69	22.91	22.10	23.31	23.71
	4H	22.49	23.59	22.92	24.00	24.44	22.49	23.59	22.92	24.00	24.44
	6H	23.10	24.07	23.55	24.51	24.96	23.10	24.07	23.55	24.51	24.96
	8H	23.30	24.21	23.76	24.65	25.11	23.30	24.21	23.76	24.65	25.11
	12H	23.44	24.26	23.92	24.74	25.20	23.44	24.26	23.92	24.74	25.20
8H	4H	22.80	23.71	23.26	24.15	24.62	22.80	23.71	23.26	24.15	24.62
	6H	23.54	24.29	24.03	24.78	25.25	23.54	24.29	24.03	24.78	25.25
	8H	23.81	24.49	24.32	24.99	25.48	23.81	24.49	24.32	24.99	25.48
	12H	24.02	24.62	24.53	25.11	25.67	24.02	24.62	24.53	25.11	25.67
12H	4H	22.84	23.66	23.32	24.13	24.60	22.84	23.66	23.32	24.13	24.60
	6H	23.59	24.28	24.10	24.78	25.26	23.59	24.28	24.10	24.78	25.26
	8H	23.92	24.53	24.43	25.01	25.57	23.92	24.53	24.43	25.01	25.57