

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: P867121

Luminaire Tested: PRLX-2002-L-940-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867121
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-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

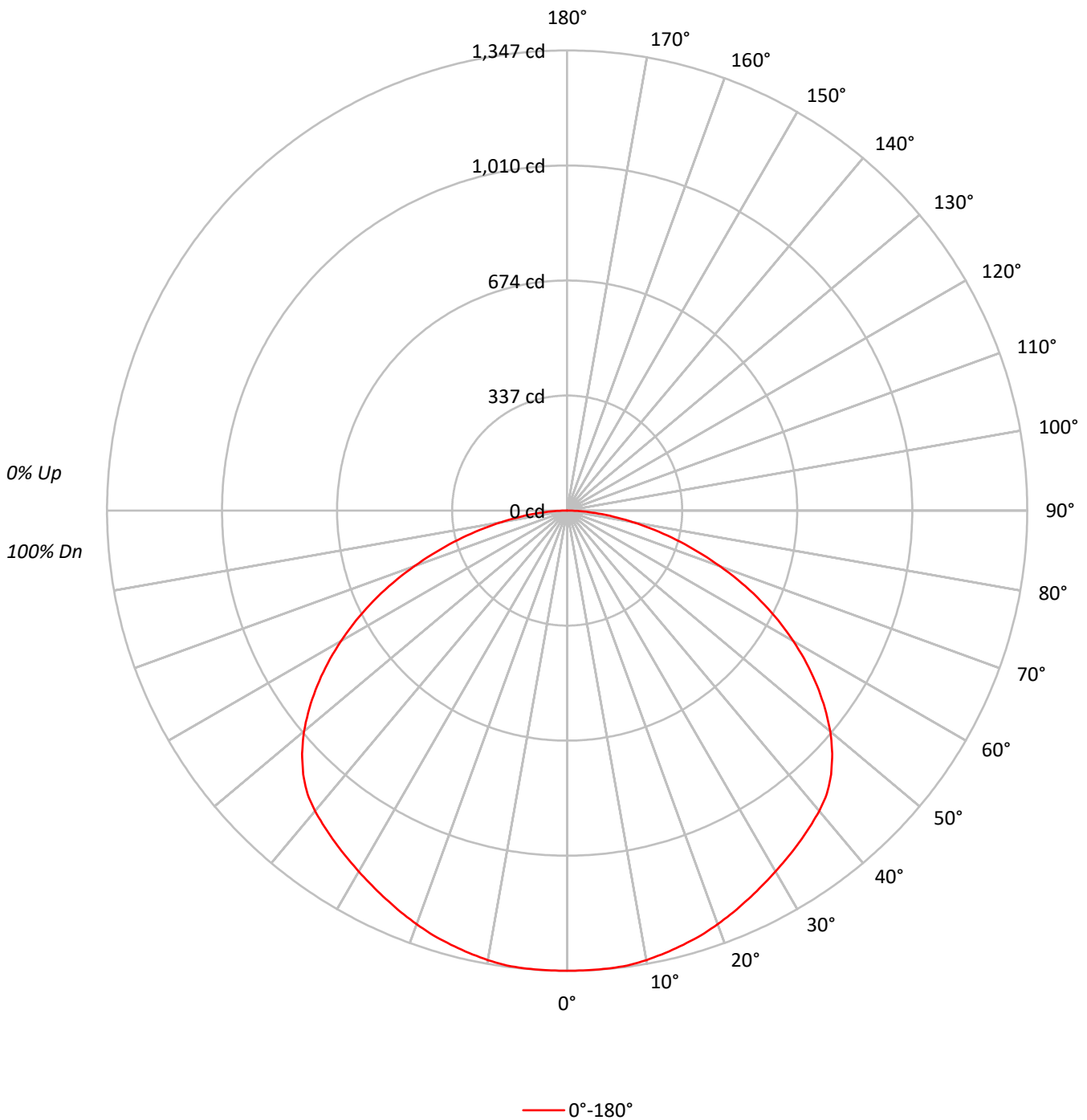
Lumens per Lamp: N/A
Luminaire Lumens: 4524.4 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	6646
5°	6666
10°	6694
15°	6719
20°	6765
25°	6830
30°	6950
35°	7139
40°	7395
45°	7625
50°	7721
55°	7681
60°	7547
65°	7305
70°	6864
75°	6295
80°	5617
85°	4614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	2.8
10°-20°	371.9	8.2
20°-30°	579.8	12.8
30°-40°	743.3	16.4
40°-50°	840.3	18.6
50°-60°	796.6	17.6
60°-70°	617.1	13.6
70°-80°	350.8	7.8
80°-90°	96.3	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°	1079.9	23.9
0°-40°	1823.2	40.3
0°-60°	3460.1	76.5
0°-90°	4524.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1347	
5°	1346	128
15°	1316	372
25°	1255	580
35°	1185	743
45°	1093	840
55°	893	797
65°	626	617
75°	330	351
85°	82	96
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1347.0
2.5°	1347.0
5°	1345.9
7.5°	1343.8
10°	1336.2
12.5°	1326.4
15°	1315.5
17.5°	1303.6
20°	1288.4
22.5°	1272.1
25°	1254.7
27.5°	1237.3
30°	1219.9
32.5°	1202.5
35°	1185.2
37.5°	1166.7
40°	1148.2
42.5°	1125.4
45°	1092.8
47.5°	1052.6
50°	1005.9
52.5°	951.6
55°	892.9
57.5°	831.0
60°	764.8
62.5°	696.3
65°	625.7
67.5°	551.8
70°	475.8
72.5°	401.9
75°	330.2
77.5°	261.8
80°	197.7
82.5°	136.9
85°	81.5
87.5°	36.9
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	21.22	19.89	21.54	21.85	19.52	21.22	19.89	21.54	21.85
	3H	21.36	22.90	21.74	23.23	23.59	21.36	22.90	21.74	23.23	23.59
	4H	22.03	23.48	22.43	23.83	24.20	22.03	23.48	22.43	23.83	24.20
	6H	22.52	23.87	22.93	24.23	24.62	22.52	23.87	22.93	24.23	24.62
	8H	22.67	23.96	23.10	24.35	24.75	22.67	23.96	23.10	24.35	24.75
	12H	22.77	24.01	23.20	24.39	24.82	22.77	24.01	23.20	24.39	24.82
4H	2H	20.19	21.64	20.59	21.99	22.36	20.19	21.64	20.59	21.99	22.36
	3H	22.24	23.46	22.64	23.85	24.25	22.24	23.46	22.64	23.85	24.25
	4H	23.03	24.14	23.46	24.55	24.98	23.03	24.14	23.46	24.55	24.98
	6H	23.64	24.61	24.10	25.05	25.51	23.64	24.61	24.10	25.05	25.51
	8H	23.85	24.75	24.30	25.20	25.66	23.85	24.75	24.30	25.20	25.66
	12H	23.99	24.81	24.47	25.28	25.75	23.99	24.81	24.47	25.28	25.75
8H	4H	23.35	24.26	23.81	24.70	25.16	23.35	24.26	23.81	24.70	25.16
	6H	24.08	24.84	24.57	25.32	25.80	24.08	24.84	24.57	25.32	25.80
	8H	24.35	25.03	24.86	25.54	26.02	24.35	25.03	24.86	25.54	26.02
	12H	24.57	25.17	25.07	25.66	26.22	24.57	25.17	25.07	25.66	26.22
12H	4H	23.39	24.20	23.86	24.68	25.15	23.39	24.20	23.86	24.68	25.15
	6H	24.14	24.82	24.65	25.32	25.81	24.14	24.82	24.65	25.32	25.81
	8H	24.47	25.07	24.97	25.56	26.12	24.47	25.07	24.97	25.56	26.12