

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: P867122

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

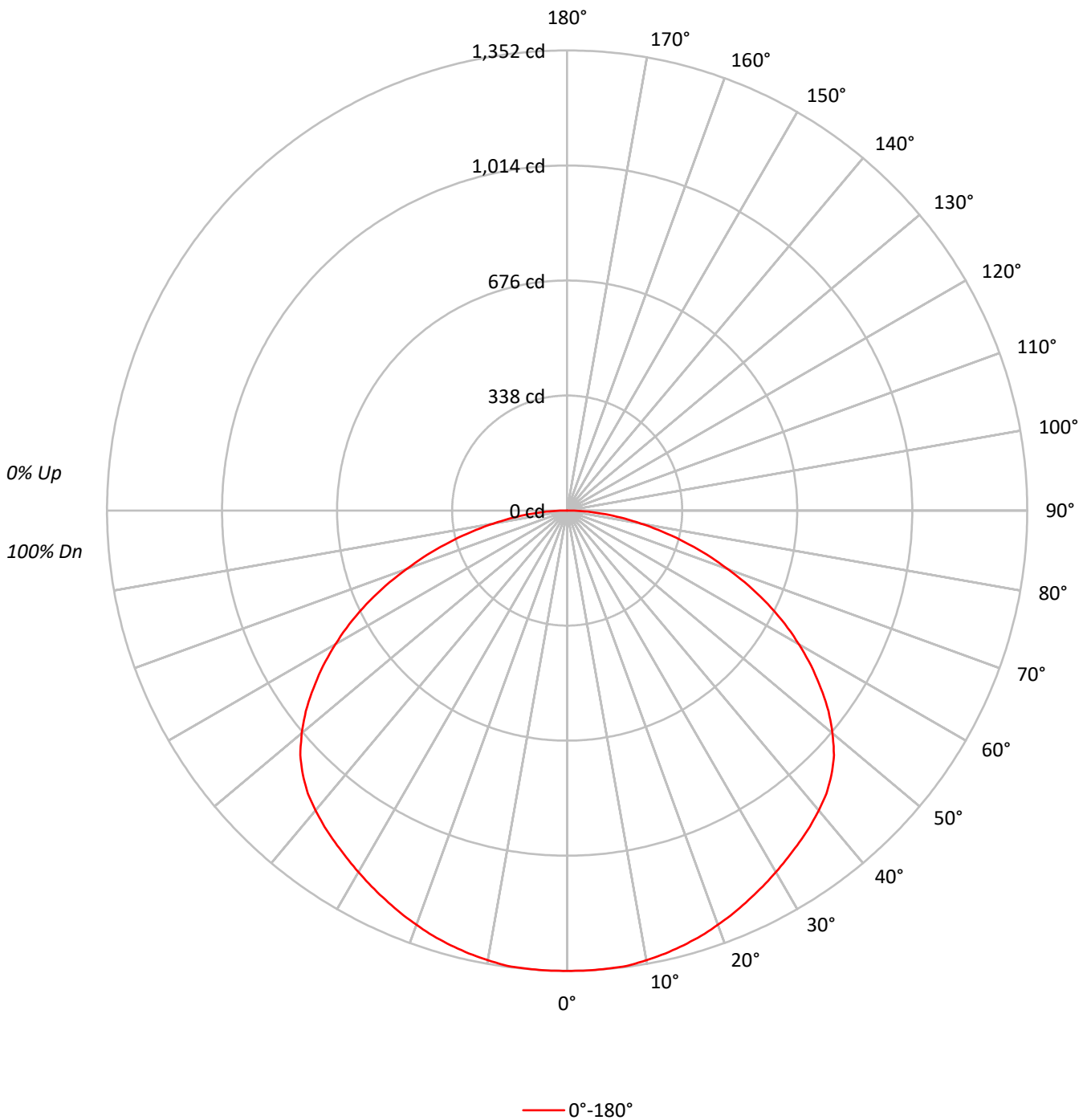
Lumens per Lamp: N/A
Luminaire Lumens: 4625.2 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6673
5°	6693
10°	6721
15°	6753
20°	6799
25°	6872
30°	6987
35°	7164
40°	7409
45°	7663
50°	7813
55°	7830
60°	7761
65°	7597
70°	7240
75°	6813
80°	6265
85°	5780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	2.8
10°-20°	373.7	8.1
20°-30°	583.1	12.6
30°-40°	746.1	16.1
40°-50°	845.4	18.3
50°-60°	812.4	17.6
60°-70°	641.9	13.9
70°-80°	378.6	8.2
80°-90°	115.1	2.5
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°	1085.6	23.5
0°-40°	1831.8	39.6
0°-60°	3489.6	75.4
0°-90°	4625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1352	
5°	1351	129
15°	1322	374
25°	1262	583
35°	1190	746
45°	1098	845
55°	910	812
65°	651	642
75°	357	379
85°	102	115
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1352.5
2.5°	1352.5
5°	1351.4
7.5°	1349.2
10°	1341.6
12.5°	1332.9
15°	1322.0
17.5°	1310.1
20°	1294.9
22.5°	1279.7
25°	1262.3
27.5°	1244.9
30°	1226.4
32.5°	1208.0
35°	1189.5
37.5°	1171.0
40°	1150.4
42.5°	1127.6
45°	1098.3
47.5°	1063.5
50°	1017.9
52.5°	967.9
55°	910.3
57.5°	850.6
60°	786.5
62.5°	721.3
65°	650.7
67.5°	577.9
70°	501.9
72.5°	430.2
75°	357.4
77.5°	286.8
80°	220.5
82.5°	158.6
85°	102.1
87.5°	52.1
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	19.60	21.31	19.96	21.62	21.93	19.60	21.31	19.96	21.62	21.93
	3H	21.51	23.06	21.89	23.39	23.75	21.51	23.06	21.89	23.39	23.75
	4H	22.24	23.70	22.63	24.05	24.42	22.24	23.70	22.63	24.05	24.42
	6H	22.78	24.14	23.19	24.51	24.89	22.78	24.14	23.19	24.51	24.89
	8H	22.97	24.27	23.39	24.66	25.06	22.97	24.27	23.39	24.66	25.06
	12H	23.11	24.36	23.54	24.74	25.16	23.11	24.36	23.54	24.74	25.16
4H	2H	20.28	21.75	20.68	22.09	22.47	20.28	21.75	20.68	22.09	22.47
	3H	22.41	23.65	22.82	24.04	24.44	22.41	23.65	22.82	24.04	24.44
	4H	23.27	24.39	23.70	24.80	25.23	23.27	24.39	23.70	24.80	25.23
	6H	23.95	24.93	24.40	25.37	25.82	23.95	24.93	24.40	25.37	25.82
	8H	24.19	25.11	24.64	25.55	26.01	24.19	25.11	24.64	25.55	26.01
	12H	24.38	25.21	24.85	25.68	26.15	24.38	25.21	24.85	25.68	26.15
8H	4H	23.61	24.53	24.07	24.97	25.44	23.61	24.53	24.07	24.97	25.44
	6H	24.42	25.19	24.91	25.68	26.15	24.42	25.19	24.91	25.68	26.15
	8H	24.74	25.43	25.25	25.94	26.42	24.74	25.43	25.25	25.94	26.42
	12H	25.02	25.63	25.52	26.12	26.68	25.02	25.63	25.52	26.12	26.68
12H	4H	23.66	24.49	24.13	24.96	25.43	23.66	24.49	24.13	24.96	25.43
	6H	24.49	25.18	25.00	25.69	26.17	24.49	25.18	25.00	25.69	26.17
	8H	24.88	25.49	25.38	25.98	26.54	24.88	25.49	25.38	25.98	26.54