

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: P866995

Luminaire Tested: PRLX-2002-L-930-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-117L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

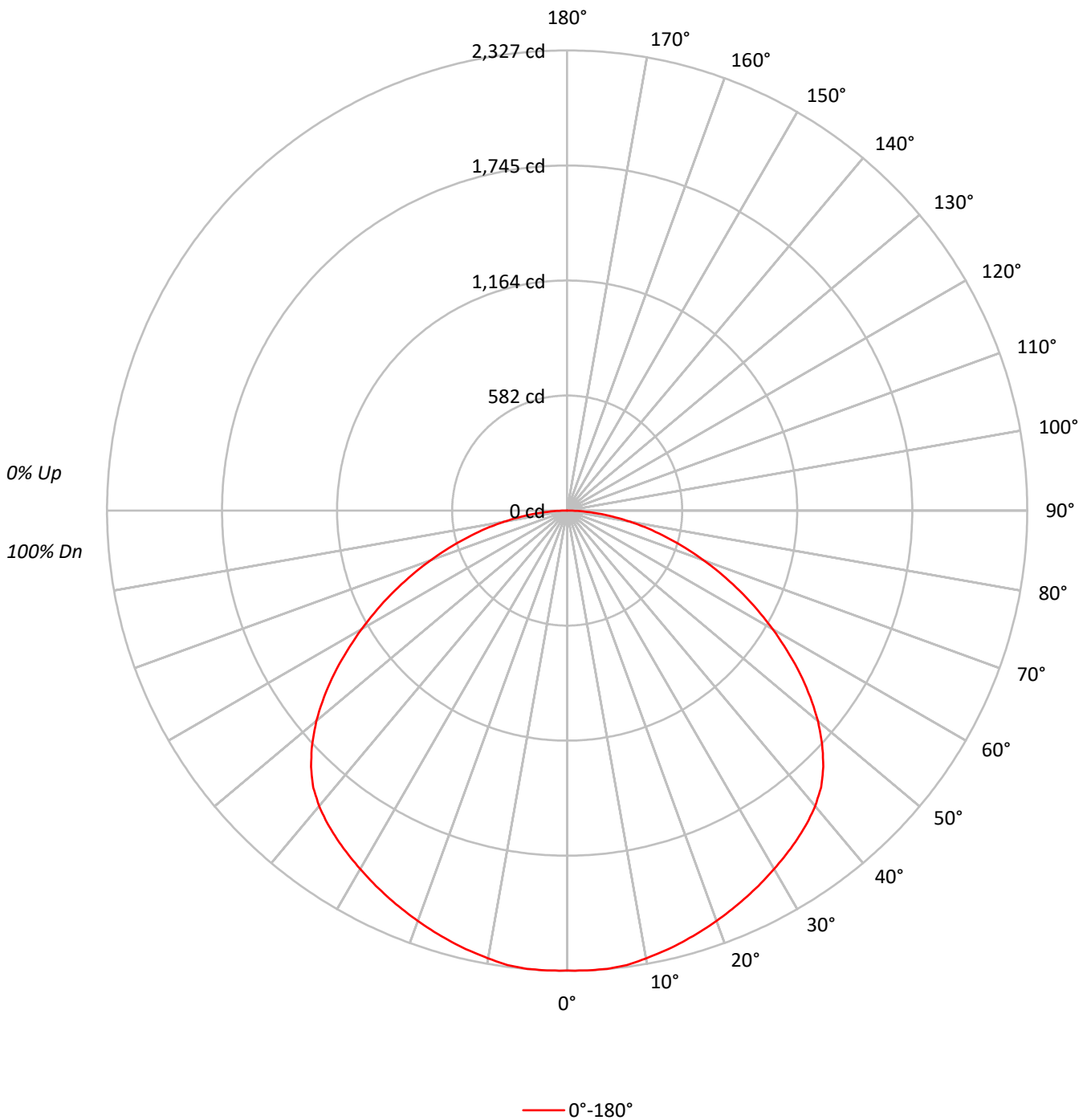
Lumens per Lamp: N/A
Luminaire Lumens: 7485.9 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: 0.333 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	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	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11478
5°	11521
10°	11519
15°	11533
20°	11596
25°	11721
30°	11922
35°	12217
40°	12564
45°	12782
50°	12708
55°	12370
60°	11855
65°	11252
70°	10577
75°	9867
80°	9157
85°	8152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12782 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	3.0
10°-20°	638.3	8.5
20°-30°	994.6	13.3
30°-40°	1271.1	17.0
40°-50°	1407.3	18.8
50°-60°	1282.6	17.1
60°-70°	955.6	12.8
70°-80°	551.6	7.4
80°-90°	163.6	2.2
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°	1854.1	24.8
0°-40°	3125.2	41.7
0°-60°	5815.1	77.7
0°-90°	7485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7485.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2326	
5°	2326	221
15°	2258	638
25°	2153	995
35°	2028	1271
45°	1832	1407
55°	1438	1283
65°	964	956
75°	518	552
85°	144	164
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2326.3
2.5°	2327.4
5°	2326.3
7.5°	2318.3
10°	2299.2
12.5°	2280.0
15°	2257.9
17.5°	2233.7
20°	2208.5
22.5°	2181.3
25°	2153.1
27.5°	2123.9
30°	2092.7
32.5°	2061.5
35°	2028.3
37.5°	1993.0
40°	1950.7
42.5°	1900.4
45°	1831.9
47.5°	1749.3
50°	1655.6
52.5°	1549.9
55°	1438.1
57.5°	1319.3
60°	1201.4
62.5°	1082.6
65°	963.8
67.5°	849.0
70°	733.2
72.5°	625.4
75°	517.6
77.5°	421.0
80°	322.3
82.5°	229.6
85°	144.0
87.5°	66.5
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	21.01	22.68	21.37	23.00	23.31	21.01	22.68	21.37	23.00	23.31
	3H	22.76	24.28	23.13	24.60	24.96	22.76	24.28	23.13	24.60	24.96
	4H	23.42	24.85	23.82	25.20	25.58	23.42	24.85	23.82	25.20	25.58
	6H	23.94	25.27	24.35	25.63	26.02	23.94	25.27	24.35	25.63	26.02
	8H	24.11	25.39	24.54	25.77	26.17	24.11	25.39	24.54	25.77	26.17
	12H	24.24	25.46	24.67	25.84	26.27	24.24	25.46	24.67	25.84	26.27
4H	2H	21.63	23.06	22.02	23.41	23.78	21.63	23.06	22.02	23.41	23.78
	3H	23.60	24.81	24.01	25.20	25.60	23.60	24.81	24.01	25.20	25.60
	4H	24.40	25.49	24.83	25.90	26.34	24.40	25.49	24.83	25.90	26.34
	6H	25.05	26.01	25.51	26.45	26.90	25.05	26.01	25.51	26.45	26.90
	8H	25.28	26.18	25.74	26.62	27.08	25.28	26.18	25.74	26.62	27.08
	12H	25.45	26.26	25.93	26.73	27.20	25.45	26.26	25.93	26.73	27.20
8H	4H	24.72	25.62	25.18	26.06	26.52	24.72	25.62	25.18	26.06	26.52
	6H	25.51	26.25	26.00	26.74	27.21	25.51	26.25	26.00	26.74	27.21
	8H	25.81	26.48	26.32	26.99	27.47	25.81	26.48	26.32	26.99	27.47
	12H	26.06	26.66	26.57	27.15	27.71	26.06	26.66	26.57	27.15	27.71
12H	4H	24.76	25.57	25.24	26.04	26.51	24.76	25.57	25.24	26.04	26.51
	6H	25.57	26.24	26.08	26.75	27.23	25.57	26.24	26.08	26.75	27.23
	8H	25.94	26.53	26.44	27.02	27.58	25.94	26.53	26.44	27.02	27.58