

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: P867059

Luminaire Tested: PRLX-2002-L-935-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867059
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-935-117L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

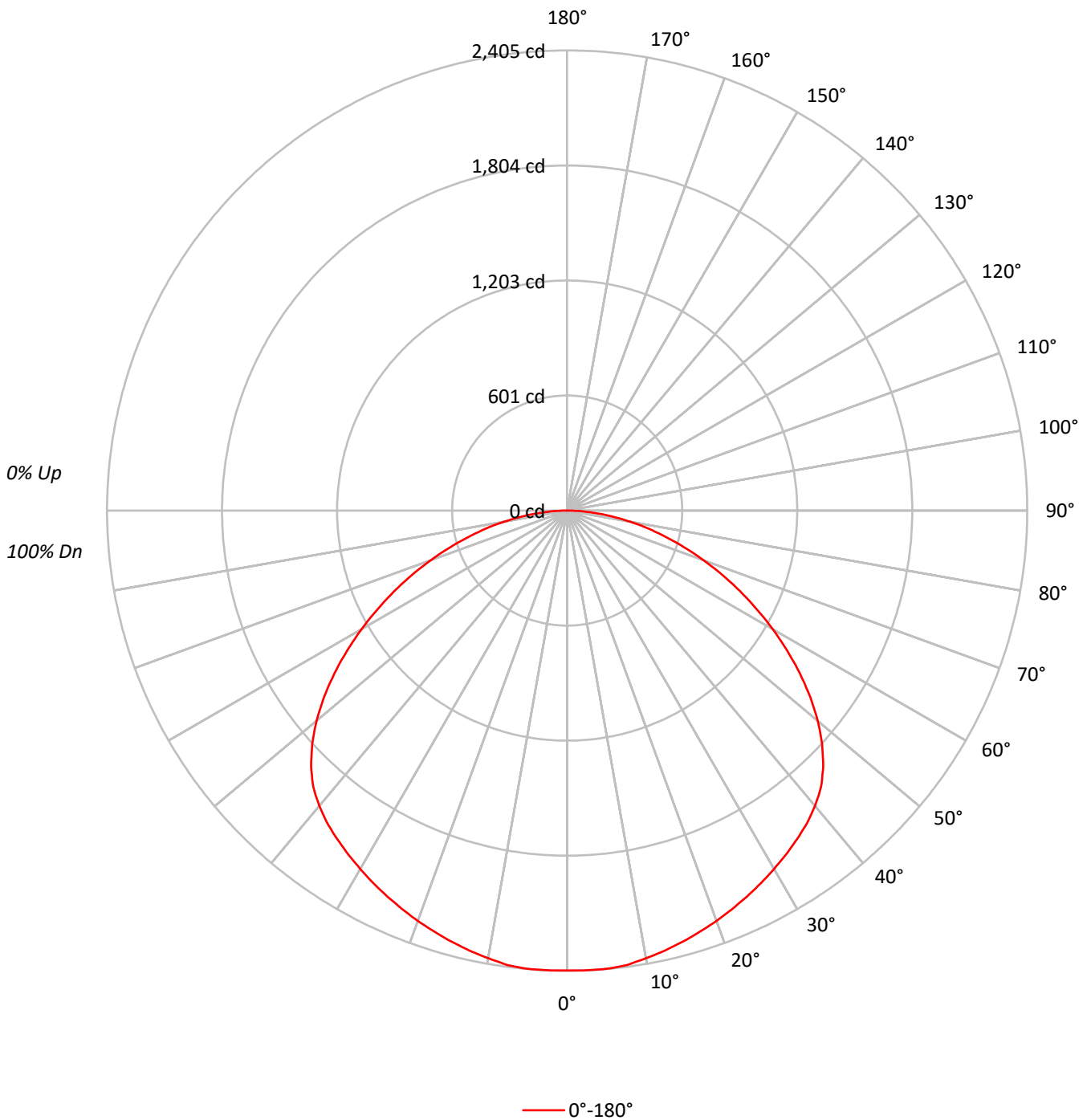
Lumens per Lamp: N/A
Luminaire Lumens: 7734.6 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): 120
Input Current (A_{in}): 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°	11859
5°	11905
10°	11902
15°	11916
20°	11981
25°	12111
30°	12319
35°	12623
40°	12981
45°	13207
50°	13131
55°	12781
60°	12250
65°	11625
70°	10927
75°	10195
80°	9461
85°	8423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13207 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	3.0
10°-20°	659.5	8.5
20°-30°	1027.7	13.3
30°-40°	1313.3	17.0
40°-50°	1454.0	18.8
50°-60°	1325.2	17.1
60°-70°	987.3	12.8
70°-80°	570.0	7.4
80°-90°	169.0	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°	1915.8	24.8
0°-40°	3229.1	41.7
0°-60°	6008.3	77.7
0°-90°	7734.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7734.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2404	
5°	2404	229
15°	2333	659
25°	2225	1028
35°	2096	1313
45°	1893	1454
55°	1486	1325
65°	996	987
75°	535	570
85°	149	169
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2403.7
2.5°	2404.7
5°	2403.7
7.5°	2395.3
10°	2375.6
12.5°	2355.8
15°	2332.9
17.5°	2307.9
20°	2281.9
22.5°	2253.8
25°	2224.7
27.5°	2194.5
30°	2162.3
32.5°	2130.0
35°	2095.7
37.5°	2059.3
40°	2015.5
42.5°	1963.5
45°	1892.8
47.5°	1807.4
50°	1710.7
52.5°	1601.4
55°	1485.9
57.5°	1363.1
60°	1241.4
62.5°	1118.6
65°	995.8
67.5°	877.2
70°	757.5
72.5°	646.2
75°	534.8
77.5°	435.0
80°	333.0
82.5°	237.2
85°	148.8
87.5°	68.7
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	21.12	22.80	21.49	23.11	23.43	21.12	22.80	21.49	23.11	23.43
	3H	22.87	24.39	23.25	24.72	25.07	22.87	24.39	23.25	24.72	25.07
	4H	23.53	24.97	23.93	25.31	25.69	23.53	24.97	23.93	25.31	25.69
	6H	24.05	25.38	24.46	25.75	26.14	24.05	25.38	24.46	25.75	26.14
	8H	24.23	25.50	24.65	25.89	26.29	24.23	25.50	24.65	25.89	26.29
	12H	24.35	25.57	24.78	25.95	26.38	24.35	25.57	24.78	25.95	26.38
4H	2H	21.74	23.17	22.14	23.52	23.89	21.74	23.17	22.14	23.52	23.89
	3H	23.71	24.92	24.12	25.32	25.71	23.71	24.92	24.12	25.32	25.71
	4H	24.51	25.60	24.94	26.02	26.45	24.51	25.60	24.94	26.02	26.45
	6H	25.17	26.12	25.62	26.56	27.02	25.17	26.12	25.62	26.56	27.02
	8H	25.39	26.29	25.85	26.73	27.19	25.39	26.29	25.85	26.73	27.19
	12H	25.57	26.37	26.05	26.85	27.32	25.57	26.37	26.05	26.85	27.32
8H	4H	24.84	25.73	25.29	26.17	26.64	24.84	25.73	25.29	26.17	26.64
	6H	25.62	26.37	26.11	26.85	27.33	25.62	26.37	26.11	26.85	27.33
	8H	25.92	26.59	26.43	27.10	27.58	25.92	26.59	26.43	27.10	27.58
	12H	26.18	26.77	26.68	27.26	27.82	26.18	26.77	26.68	27.26	27.82
12H	4H	24.88	25.68	25.36	26.16	26.62	24.88	25.68	25.36	26.16	26.62
	6H	25.68	26.36	26.19	26.86	27.34	25.68	26.36	26.19	26.86	27.34
	8H	26.05	26.64	26.56	27.13	27.69	26.05	26.64	26.56	27.13	27.69