

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: P867126

Luminaire Tested: PRLX-2002-L-940-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

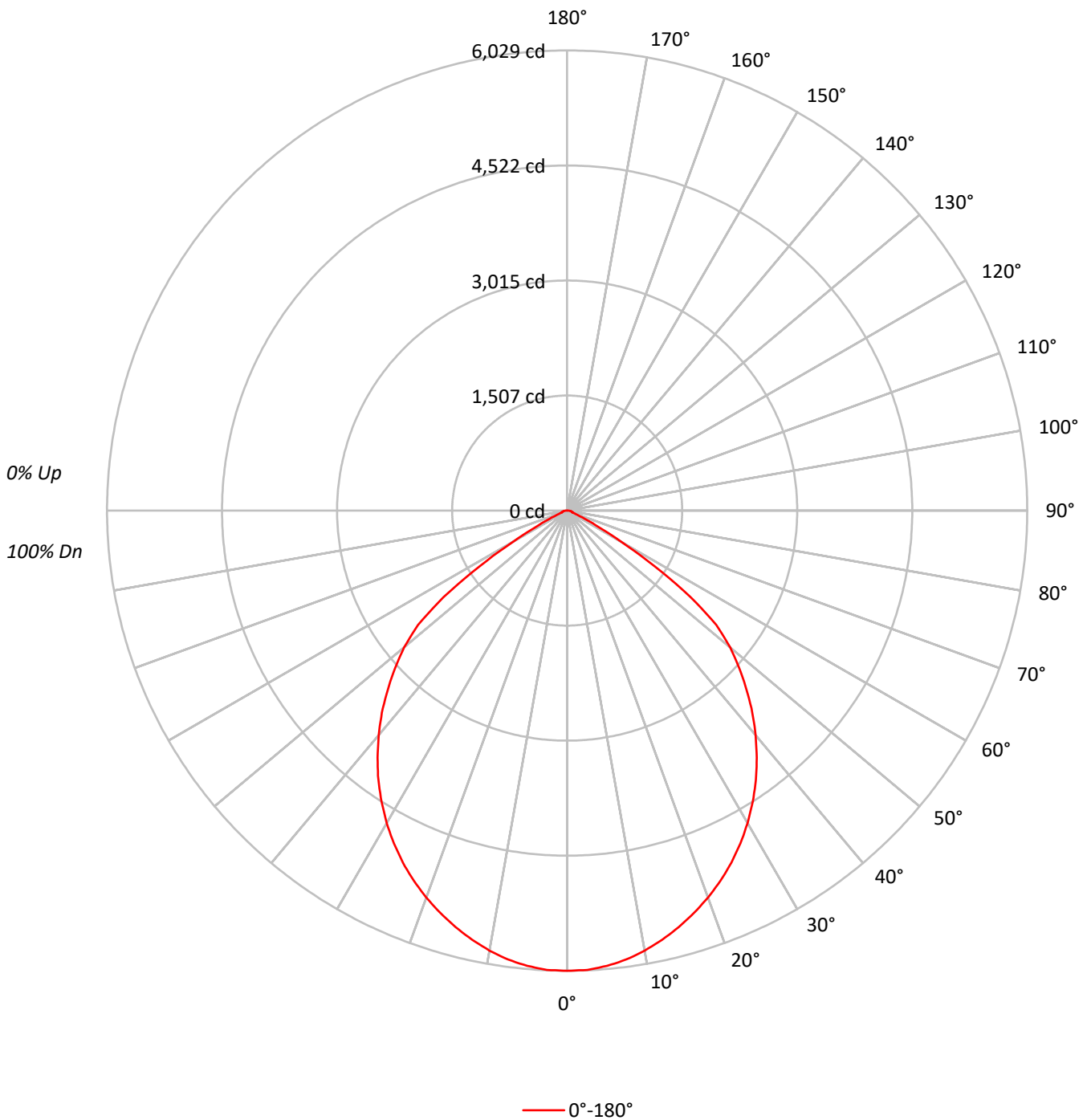
Lumens per Lamp: N/A
Luminaire Lumens: 11850.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29747
5°	29658
10°	29328
15°	28859
20°	28332
25°	27710
30°	26930
35°	25976
40°	24732
45°	23208
50°	21387
55°	17002
60°	8003
65°	2889
70°	1112
75°	1233
80°	1415
85°	1693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.3	4.8
10°-20°	1592.2	13.4
20°-30°	2341.9	19.8
30°-40°	2690.7	22.7
40°-50°	2562.8	21.6
50°-60°	1685.3	14.2
60°-70°	311.3	2.6
70°-80°	68.0	0.6
80°-90°	30.5	0.3
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°	4501.5	38.0
0°-40°	7192.2	60.7
0°-60°	11440.2	96.5
0°-90°	11850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11850.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6029	
5°	5988	567
15°	5650	1592
25°	5090	2342
35°	4313	2691
45°	3326	2563
55°	1977	1685
65°	248	311
75°	65	68
85°	30	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6029.3
2.5°	6023.1
5°	5988.2
7.5°	5932.3
10°	5853.9
12.5°	5758.1
15°	5649.9
17.5°	5528.0
20°	5396.1
22.5°	5249.3
25°	5090.1
27.5°	4916.0
30°	4726.9
32.5°	4524.1
35°	4312.7
37.5°	4081.3
40°	3840.0
42.5°	3592.4
45°	3326.2
47.5°	3062.5
50°	2786.4
52.5°	2463.0
55°	1976.6
57.5°	1354.6
60°	811.0
62.5°	456.5
65°	247.5
67.5°	124.4
70°	77.1
72.5°	70.9
75°	64.7
77.5°	58.5
80°	49.8
82.5°	41.0
85°	29.9
87.5°	16.2
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	19.78	21.18	20.14	21.50	21.81	19.78	21.18	20.14	21.50	21.81
	3H	19.70	20.93	20.08	21.26	21.62	19.70	20.93	20.08	21.26	21.62
	4H	19.65	20.80	20.05	21.15	21.53	19.65	20.80	20.05	21.15	21.53
	6H	19.60	20.65	20.02	21.02	21.42	19.60	20.65	20.02	21.02	21.42
	8H	19.58	20.57	20.00	20.96	21.37	19.58	20.57	20.00	20.96	21.37
	12H	19.55	20.50	19.98	20.89	21.32	19.55	20.50	19.98	20.89	21.32
4H	2H	19.65	20.80	20.06	21.15	21.53	19.65	20.80	20.06	21.15	21.53
	3H	19.59	20.51	20.00	20.91	21.32	19.59	20.51	20.00	20.91	21.32
	4H	19.53	20.36	19.97	20.78	21.22	19.53	20.36	19.97	20.78	21.22
	6H	19.50	20.21	19.97	20.66	21.12	19.50	20.21	19.97	20.66	21.12
	8H	19.47	20.14	19.94	20.58	21.05	19.47	20.14	19.94	20.58	21.05
	12H	19.46	20.04	19.94	20.53	21.00	19.46	20.04	19.94	20.53	21.00
8H	4H	19.42	20.08	19.89	20.53	21.00	19.42	20.08	19.89	20.53	21.00
	6H	19.38	19.93	19.88	20.43	20.91	19.38	19.93	19.88	20.43	20.91
	8H	19.36	19.86	19.88	20.37	20.86	19.36	19.86	19.88	20.37	20.86
	12H	19.36	19.80	19.87	20.30	20.86	19.36	19.80	19.87	20.30	20.86
12H	4H	19.38	19.97	19.87	20.45	20.92	19.38	19.97	19.87	20.45	20.92
	6H	19.33	19.82	19.85	20.34	20.83	19.33	19.82	19.85	20.34	20.83
	8H	19.33	19.77	19.84	20.27	20.84	19.33	19.77	19.84	20.27	20.84