

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: P866926

Luminaire Tested: PRLX-2002-L-927-117L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866926
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-927-117L-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 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

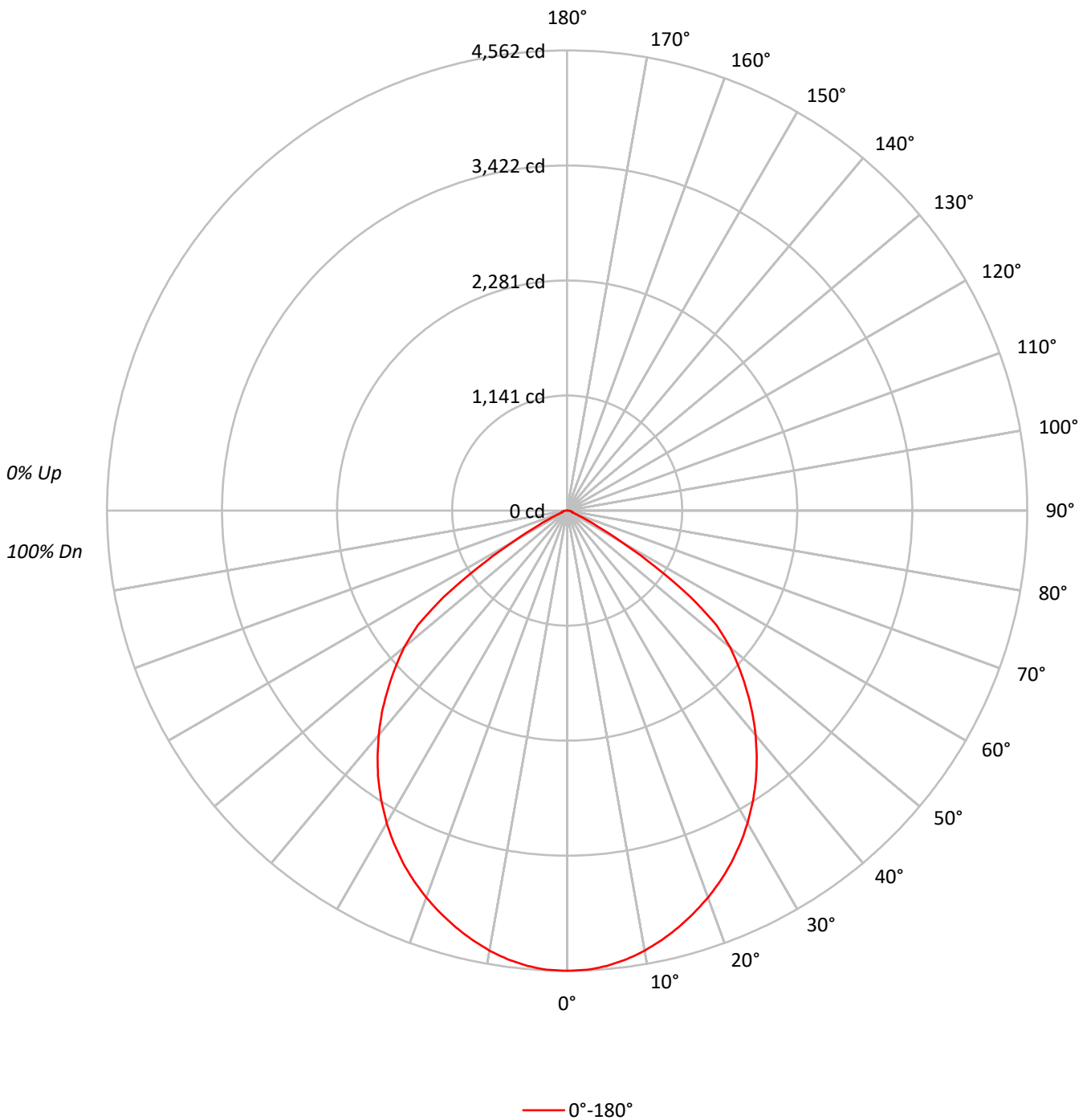
Lumens per Lamp: N/A
Luminaire Lumens: 8966.3 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	22509
5°	22441
10°	22191
15°	21836
20°	21438
25°	20967
30°	20376
35°	19654
40°	18713
45°	17561
50°	16183
55°	12865
60°	6056
65°	2187
70°	842
75°	932
80°	1068
85°	1279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	4.8
10°-20°	1204.7	13.4
20°-30°	1772.0	19.8
30°-40°	2035.9	22.7
40°-50°	1939.1	21.6
50°-60°	1275.2	14.2
60°-70°	235.5	2.6
70°-80°	51.4	0.6
80°-90°	23.1	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°	3406.1	38.0
0°-40°	5442.0	60.7
0°-60°	8656.3	96.5
0°-90°	8966.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8966.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4562	
5°	4531	429
15°	4275	1205
25°	3852	1772
35°	3263	2036
45°	2517	1939
55°	1496	1275
65°	187	236
75°	49	51
85°	23	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4562.1
2.5°	4557.4
5°	4531.0
7.5°	4488.7
10°	4429.4
12.5°	4356.9
15°	4275.0
17.5°	4182.8
20°	4083.0
22.5°	3971.9
25°	3851.5
27.5°	3719.7
30°	3576.6
32.5°	3423.2
35°	3263.2
37.5°	3088.1
40°	2905.5
42.5°	2718.2
45°	2516.8
47.5°	2317.3
50°	2108.3
52.5°	1863.6
55°	1495.6
57.5°	1025.0
60°	613.7
62.5°	345.4
65°	187.3
67.5°	94.1
70°	58.4
72.5°	53.6
75°	48.9
77.5°	44.2
80°	37.6
82.5°	31.1
85°	22.6
87.5°	12.2
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	18.81	20.21	19.18	20.53	20.84	18.81	20.21	19.18	20.53	20.84
	3H	18.73	19.96	19.11	20.29	20.66	18.73	19.96	19.11	20.29	20.66
	4H	18.68	19.83	19.08	20.18	20.56	18.68	19.83	19.08	20.18	20.56
	6H	18.63	19.68	19.05	20.05	20.45	18.63	19.68	19.05	20.05	20.45
	8H	18.61	19.60	19.04	19.99	20.40	18.61	19.60	19.04	19.99	20.40
	12H	18.58	19.53	19.01	19.92	20.35	18.58	19.53	19.01	19.92	20.35
4H	2H	18.69	19.83	19.09	20.18	20.56	18.69	19.83	19.09	20.18	20.56
	3H	18.62	19.54	19.03	19.95	20.35	18.62	19.54	19.03	19.95	20.35
	4H	18.57	19.39	19.00	19.81	20.25	18.57	19.39	19.00	19.81	20.25
	6H	18.53	19.24	19.00	19.69	20.15	18.53	19.24	19.00	19.69	20.15
	8H	18.51	19.17	18.97	19.61	20.09	18.51	19.17	18.97	19.61	20.09
	12H	18.49	19.08	18.97	19.56	20.03	18.49	19.08	18.97	19.56	20.03
8H	4H	18.45	19.12	18.92	19.56	20.03	18.45	19.12	18.92	19.56	20.03
	6H	18.41	18.96	18.92	19.46	19.94	18.41	18.96	18.92	19.46	19.94
	8H	18.39	18.89	18.91	19.40	19.89	18.39	18.89	18.91	19.40	19.89
	12H	18.39	18.83	18.90	19.33	19.90	18.39	18.83	18.90	19.33	19.90
12H	4H	18.41	19.00	18.90	19.48	19.96	18.41	19.00	18.90	19.48	19.96
	6H	18.36	18.86	18.88	19.37	19.86	18.36	18.86	18.88	19.37	19.86
	8H	18.36	18.81	18.87	19.30	19.87	18.36	18.81	18.87	19.30	19.87