

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: P866933

Luminaire Tested: PRLX-2002-L-927-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-133L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

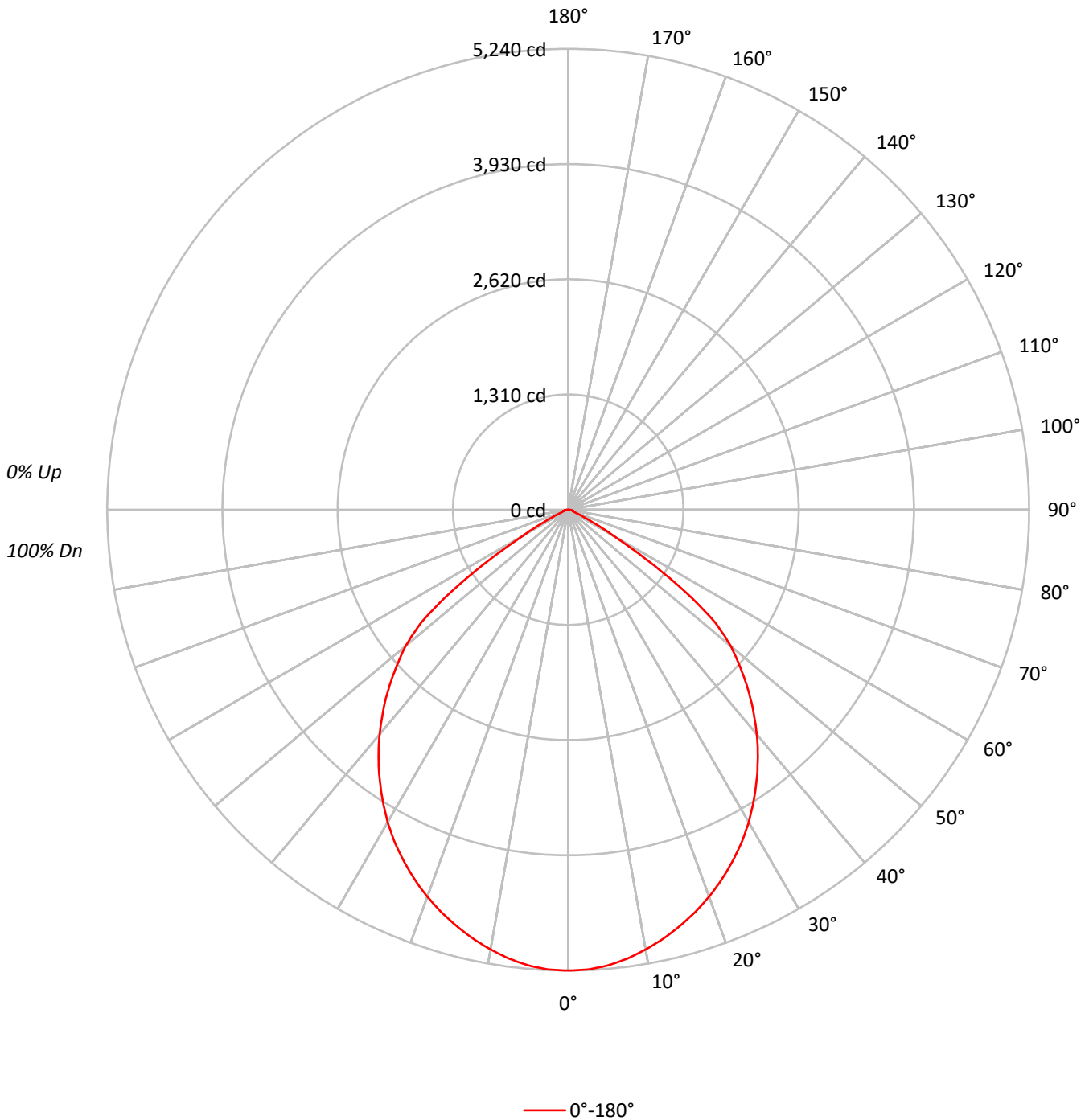
Lumens per Lamp: N/A
Luminaire Lumens: 10174.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25854
5°	25760
10°	25437
15°	25037
20°	24587
25°	24038
30°	23376
35°	22512
40°	21484
45°	20177
50°	18539
55°	13944
60°	5870
65°	2164
70°	995
75°	1088
80°	1256
85°	1466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.5	4.8
10°-20°	1381.6	13.6
20°-30°	2032.4	20.0
30°-40°	2334.3	22.9
40°-50°	2223.6	21.9
50°-60°	1392.6	13.7
60°-70°	230.5	2.3
70°-80°	60.2	0.6
80°-90°	26.3	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°	3906.6	38.4
0°-40°	6240.8	61.3
0°-60°	9857.0	96.9
0°-90°	10174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10174.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5240	
5°	5201	493
15°	4902	1382
25°	4416	2032
35°	3738	2334
45°	2892	2224
55°	1621	1393
65°	185	230
75°	57	60
85°	26	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5240.1
2.5°	5234.7
5°	5201.3
7.5°	5148.5
10°	5077.4
12.5°	4996.6
15°	4901.7
17.5°	4798.3
20°	4682.9
22.5°	4554.7
25°	4415.6
27.5°	4268.0
30°	4103.1
32.5°	3924.2
35°	3737.7
37.5°	3541.6
40°	3335.7
42.5°	3116.9
45°	2891.7
47.5°	2651.3
50°	2415.3
52.5°	2109.2
55°	1621.0
57.5°	1047.6
60°	594.9
62.5°	337.3
65°	185.4
67.5°	87.3
70°	69.0
72.5°	63.6
75°	57.1
77.5°	50.7
80°	44.2
82.5°	35.6
85°	25.9
87.5°	12.9
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	18.52	19.91	18.88	20.23	20.54	18.52	19.91	18.88	20.23	20.54
	3H	18.43	19.66	18.81	19.99	20.35	18.43	19.66	18.81	19.99	20.35
	4H	18.39	19.53	18.79	19.88	20.26	18.39	19.53	18.79	19.88	20.26
	6H	18.35	19.40	18.77	19.76	20.16	18.35	19.40	18.77	19.76	20.16
	8H	18.33	19.32	18.76	19.71	20.11	18.33	19.32	18.76	19.71	20.11
	12H	18.31	19.25	18.74	19.63	20.06	18.31	19.25	18.74	19.63	20.06
4H	2H	18.39	19.53	18.79	19.88	20.26	18.39	19.53	18.79	19.88	20.26
	3H	18.32	19.24	18.73	19.64	20.04	18.32	19.24	18.73	19.64	20.04
	4H	18.28	19.09	18.71	19.51	19.96	18.28	19.09	18.71	19.51	19.96
	6H	18.26	18.96	18.72	19.41	19.87	18.26	18.96	18.72	19.41	19.87
	8H	18.24	18.90	18.71	19.34	19.81	18.24	18.90	18.71	19.34	19.81
	12H	18.23	18.81	18.71	19.29	19.76	18.23	18.81	18.71	19.29	19.76
8H	4H	18.17	18.83	18.64	19.27	19.74	18.17	18.83	18.64	19.27	19.74
	6H	18.15	18.69	18.65	19.19	19.67	18.15	18.69	18.65	19.19	19.67
	8H	18.14	18.63	18.66	19.14	19.63	18.14	18.63	18.66	19.14	19.63
	12H	18.14	18.59	18.66	19.08	19.65	18.14	18.59	18.66	19.08	19.65
12H	4H	18.13	18.71	18.62	19.20	19.67	18.13	18.71	18.62	19.20	19.67
	6H	18.10	18.59	18.62	19.10	19.60	18.10	18.59	18.62	19.10	19.60
	8H	18.11	18.55	18.62	19.05	19.62	18.11	18.55	18.62	19.05	19.62