

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: P866921

Luminaire Tested: PRLX-2002-L-927-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-100L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

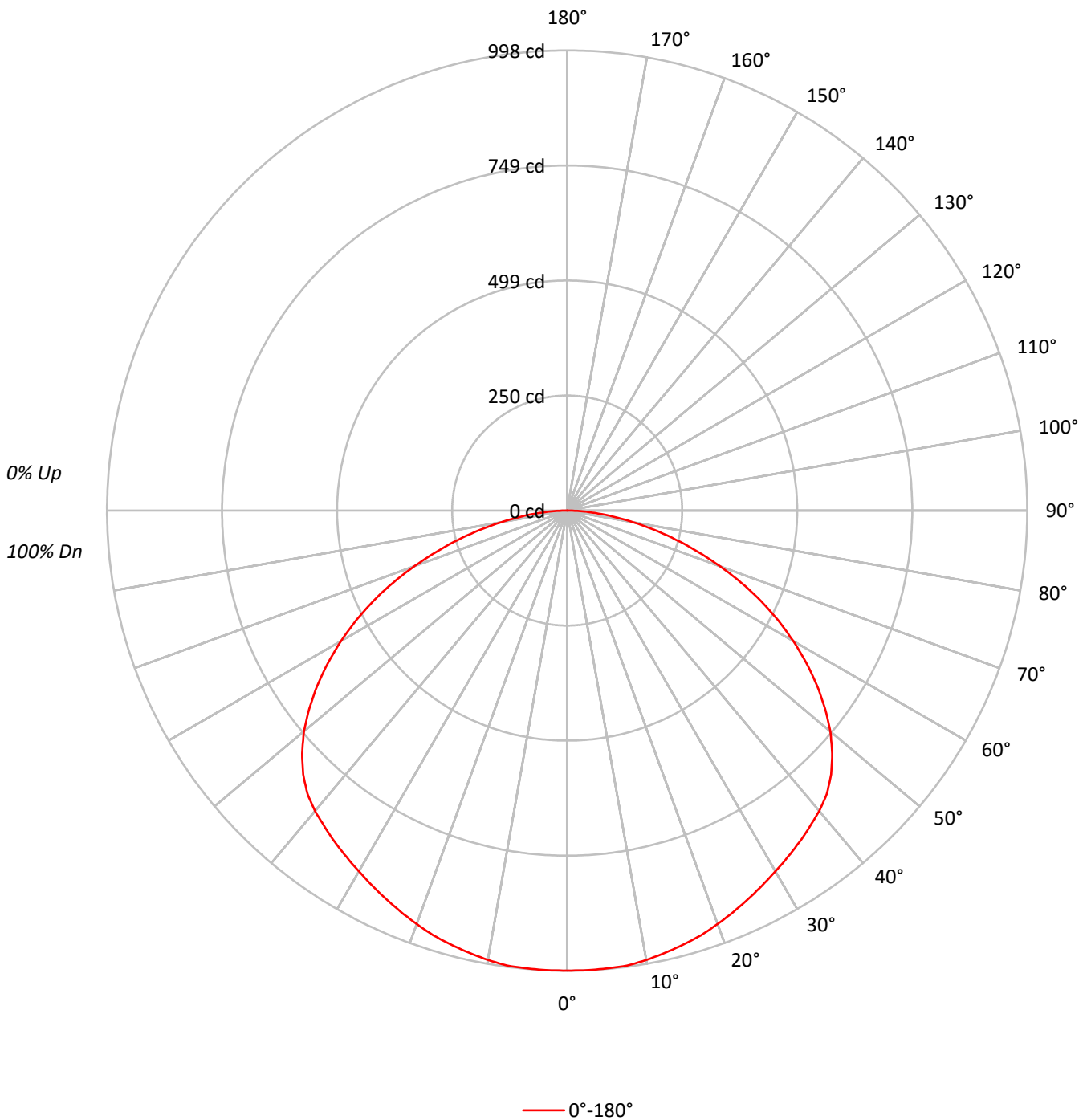
Lumens per Lamp: N/A
Luminaire Lumens: 3351.3 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29
9	55	41	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4923
5°	4938
10°	4958
15°	4977
20°	5011
25°	5060
30°	5148
35°	5288
40°	5478
45°	5648
50°	5719
55°	5689
60°	5590
65°	5411
70°	5084
75°	4663
80°	4160
85°	3414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	2.8
10°-20°	275.5	8.2
20°-30°	429.4	12.8
30°-40°	550.6	16.4
40°-50°	622.4	18.6
50°-60°	590.1	17.6
60°-70°	457.1	13.6
70°-80°	259.9	7.8
80°-90°	71.4	2.1
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°	799.9	23.9
0°-40°	1350.5	40.3
0°-60°	2563.0	76.5
0°-90°	3351.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	998	
5°	997	95
15°	974	275
25°	929	429
35°	878	551
45°	810	622
55°	661	590
65°	464	457
75°	245	260
85°	60	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	997.8
2.5°	997.8
5°	997.0
7.5°	995.4
10°	989.7
12.5°	982.5
15°	974.4
17.5°	965.6
20°	954.3
22.5°	942.3
25°	929.4
27.5°	916.5
30°	903.6
32.5°	890.8
35°	877.9
37.5°	864.2
40°	850.5
42.5°	833.6
45°	809.5
47.5°	779.7
50°	745.1
52.5°	704.9
55°	661.4
57.5°	615.6
60°	566.5
62.5°	515.8
65°	463.5
67.5°	408.8
70°	352.4
72.5°	297.7
75°	244.6
77.5°	193.9
80°	146.4
82.5°	101.4
85°	60.3
87.5°	27.4
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	18.48	20.18	18.85	20.49	20.81	18.48	20.18	18.85	20.49	20.81
	3H	20.32	21.86	20.70	22.19	22.54	20.32	21.86	20.70	22.19	22.54
	4H	20.99	22.44	21.39	22.79	23.16	20.99	22.44	21.39	22.79	23.16
	6H	21.48	22.82	21.89	23.19	23.58	21.48	22.82	21.89	23.19	23.58
	8H	21.63	22.92	22.05	23.31	23.71	21.63	22.92	22.05	23.31	23.71
	12H	21.73	22.97	22.16	23.35	23.78	21.73	22.97	22.16	23.35	23.78
4H	2H	19.15	20.60	19.54	20.94	21.32	19.15	20.60	19.54	20.94	21.32
	3H	21.19	22.42	21.60	22.81	23.21	21.19	22.42	21.60	22.81	23.21
	4H	21.99	23.09	22.42	23.51	23.94	21.99	23.09	22.42	23.51	23.94
	6H	22.60	23.57	23.05	24.01	24.46	22.60	23.57	23.05	24.01	24.46
	8H	22.80	23.71	23.26	24.15	24.62	22.80	23.71	23.26	24.15	24.62
	12H	22.95	23.76	23.42	24.24	24.71	22.95	23.76	23.42	24.24	24.71
8H	4H	22.31	23.21	22.76	23.65	24.12	22.31	23.21	22.76	23.65	24.12
	6H	23.04	23.80	23.53	24.28	24.76	23.04	23.80	23.53	24.28	24.76
	8H	23.31	23.99	23.82	24.49	24.98	23.31	23.99	23.82	24.49	24.98
	12H	23.52	24.13	24.03	24.61	25.17	23.52	24.13	24.03	24.61	25.17
12H	4H	22.34	23.16	22.82	23.63	24.10	22.34	23.16	22.82	23.63	24.10
	6H	23.10	23.78	23.60	24.28	24.77	23.10	23.78	23.60	24.28	24.77
	8H	23.43	24.03	23.93	24.52	25.07	23.43	24.03	23.93	24.52	25.07