

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: P867041

Luminaire Tested: PRLX-2002-L-930-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867041
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-930-83L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

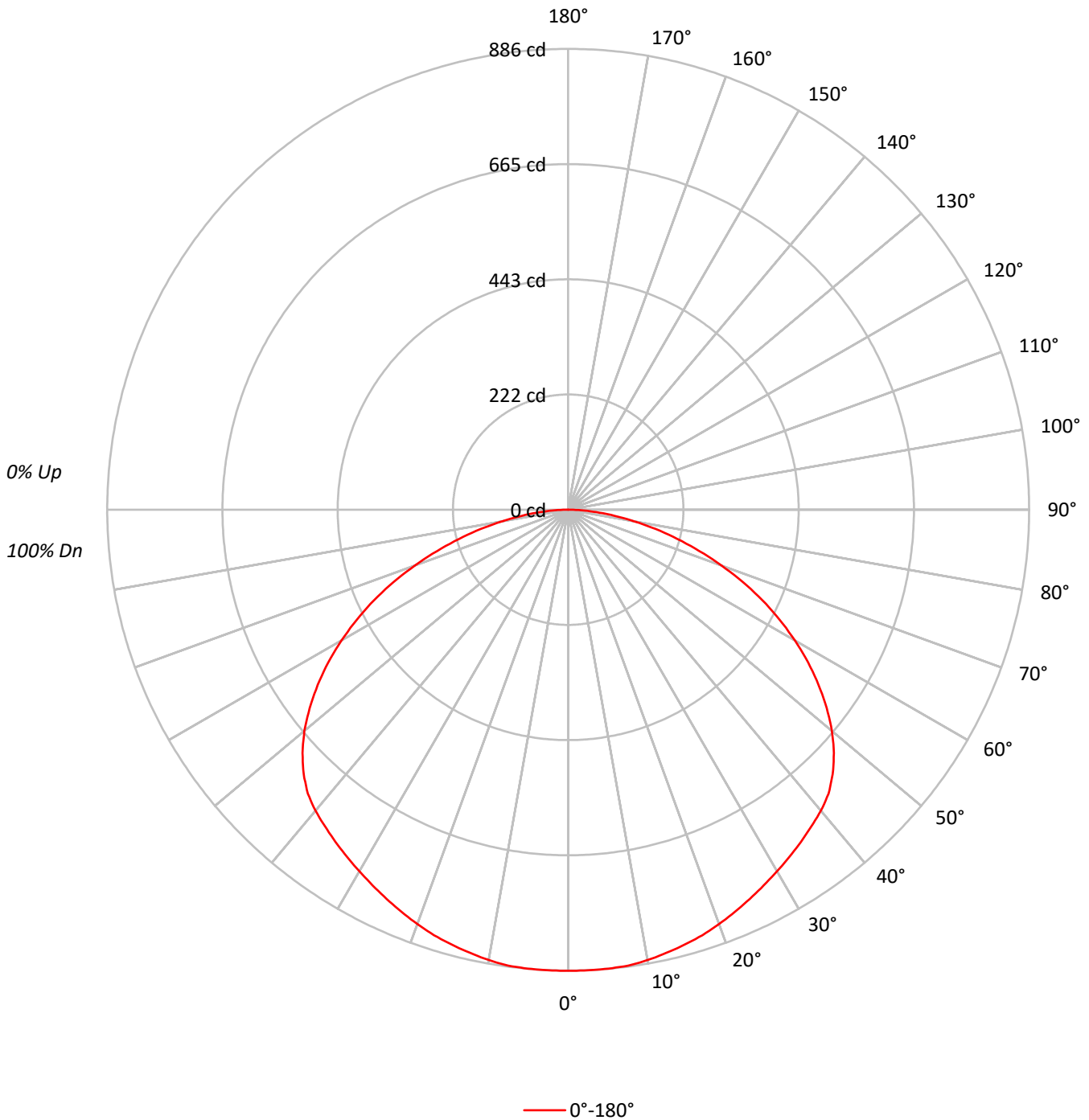
Lumens per Lamp: N/A
Luminaire Lumens: 2977.3 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4373
5°	4387
10°	4405
15°	4422
20°	4451
25°	4494
30°	4574
35°	4697
40°	4867
45°	5017
50°	5081
55°	5054
60°	4966
65°	4808
70°	4517
75°	4142
80°	3696
85°	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5081 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.8
10°-20°	244.7	8.2
20°-30°	381.5	12.8
30°-40°	489.1	16.4
40°-50°	553.0	18.6
50°-60°	524.2	17.6
60°-70°	406.1	13.6
70°-80°	230.9	7.8
80°-90°	63.4	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°	710.6	23.9
0°-40°	1199.7	40.3
0°-60°	2276.9	76.5
0°-90°	2977.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	886	
5°	886	84
15°	866	245
25°	826	382
35°	780	489
45°	719	553
55°	588	524
65°	412	406
75°	217	231
85°	54	63
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	886.4
2.5°	886.4
5°	885.7
7.5°	884.3
10°	879.3
12.5°	872.8
15°	865.7
17.5°	857.8
20°	847.8
22.5°	837.1
25°	825.6
27.5°	814.2
30°	802.8
32.5°	791.3
35°	779.9
37.5°	767.7
40°	755.6
42.5°	740.6
45°	719.1
47.5°	692.7
50°	661.9
52.5°	626.2
55°	587.6
57.5°	546.9
60°	503.3
62.5°	458.2
65°	411.8
67.5°	363.1
70°	313.1
72.5°	264.5
75°	217.3
77.5°	172.3
80°	130.1
82.5°	90.1
85°	53.6
87.5°	24.3
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	18.07	19.77	18.44	20.08	20.40	18.07	19.77	18.44	20.08	20.40
	3H	19.91	21.45	20.29	21.77	22.13	19.91	21.45	20.29	21.77	22.13
	4H	20.58	22.03	20.98	22.38	22.75	20.58	22.03	20.98	22.38	22.75
	6H	21.07	22.41	21.48	22.78	23.17	21.07	22.41	21.48	22.78	23.17
	8H	21.22	22.51	21.64	22.90	23.30	21.22	22.51	21.64	22.90	23.30
	12H	21.32	22.56	21.75	22.94	23.37	21.32	22.56	21.75	22.94	23.37
4H	2H	18.73	20.19	19.13	20.53	20.91	18.73	20.19	19.13	20.53	20.91
	3H	20.78	22.00	21.19	22.40	22.80	20.78	22.00	21.19	22.40	22.80
	4H	21.58	22.68	22.01	23.10	23.53	21.58	22.68	22.01	23.10	23.53
	6H	22.19	23.16	22.64	23.60	24.05	22.19	23.16	22.64	23.60	24.05
	8H	22.39	23.30	22.85	23.74	24.21	22.39	23.30	22.85	23.74	24.21
	12H	22.54	23.35	23.01	23.83	24.30	22.54	23.35	23.01	23.83	24.30
8H	4H	21.89	22.80	22.35	23.24	23.71	21.89	22.80	22.35	23.24	23.71
	6H	22.63	23.39	23.12	23.87	24.34	22.63	23.39	23.12	23.87	24.34
	8H	22.90	23.58	23.41	24.08	24.57	22.90	23.58	23.41	24.08	24.57
	12H	23.11	23.71	23.62	24.20	24.76	23.11	23.71	23.62	24.20	24.76
12H	4H	21.93	22.75	22.41	23.22	23.69	21.93	22.75	22.41	23.22	23.69
	6H	22.69	23.37	23.19	23.87	24.36	22.69	23.37	23.19	23.87	24.36
	8H	23.02	23.62	23.52	24.11	24.66	23.02	23.62	23.52	24.11	24.66