

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: P866969

Luminaire Tested: PRLX-2002-L-927-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866969
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-927-67L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

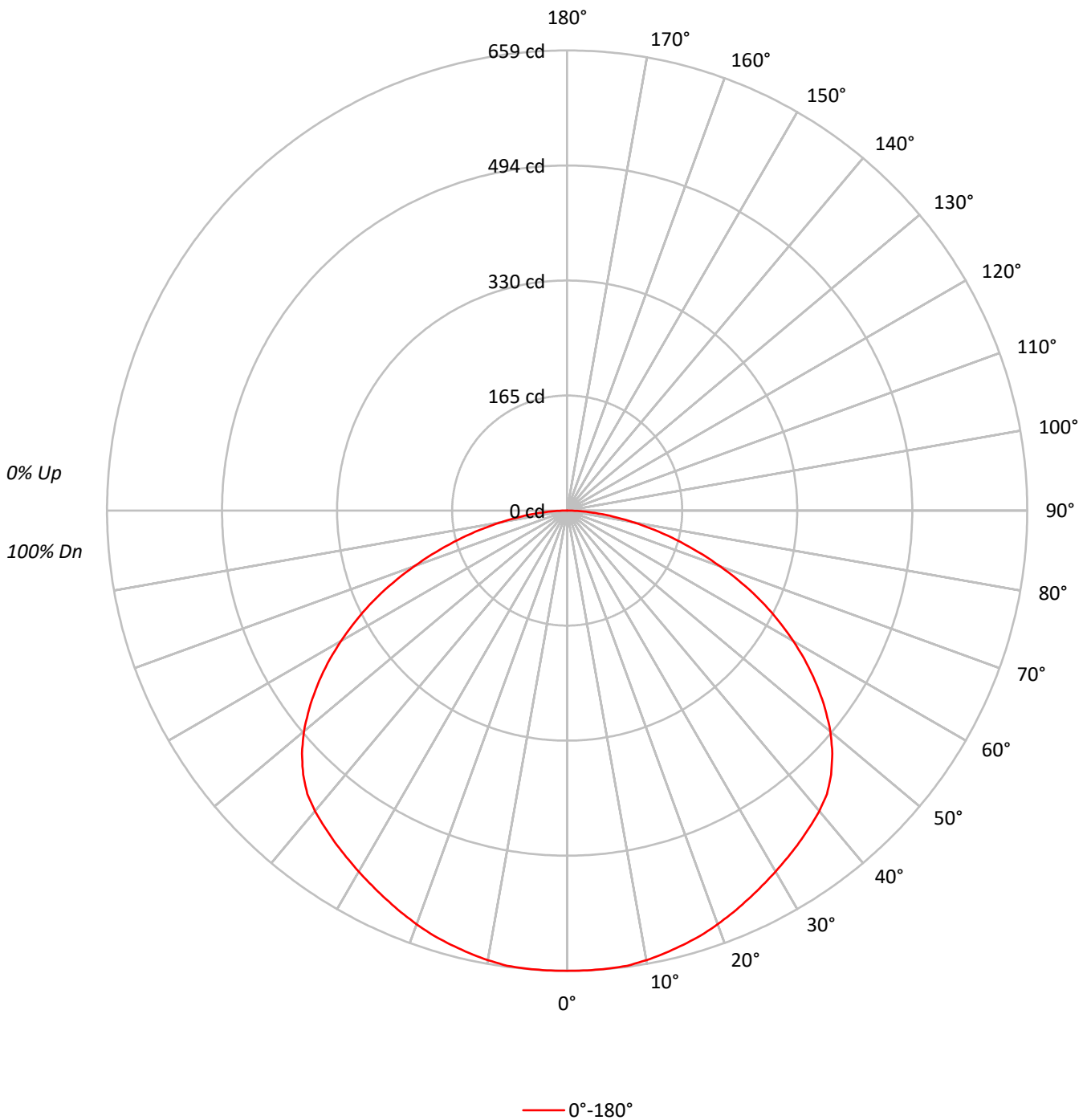
Lumens per Lamp: N/A
Luminaire Lumens: 2213.8 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	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°	3252
5°	3262
10°	3275
15°	3288
20°	3310
25°	3342
30°	3401
35°	3493
40°	3618
45°	3731
50°	3778
55°	3758
60°	3692
65°	3575
70°	3358
75°	3081
80°	2748
85°	2259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	2.8
10°-20°	182.0	8.2
20°-30°	283.7	12.8
30°-40°	363.7	16.4
40°-50°	411.2	18.6
50°-60°	389.8	17.6
60°-70°	302.0	13.6
70°-80°	171.7	7.8
80°-90°	47.2	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°	528.4	23.9
0°-40°	892.1	40.3
0°-60°	1693.0	76.5
0°-90°	2213.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	659	
5°	659	63
15°	644	182
25°	614	284
35°	580	364
45°	535	411
55°	437	390
65°	306	302
75°	162	172
85°	40	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	659.1
2.5°	659.1
5°	658.6
7.5°	657.5
10°	653.8
12.5°	649.0
15°	643.7
17.5°	637.8
20°	630.4
22.5°	622.4
25°	613.9
27.5°	605.4
30°	596.9
32.5°	588.4
35°	579.9
37.5°	570.9
40°	561.8
42.5°	550.7
45°	534.7
47.5°	515.1
50°	492.2
52.5°	465.6
55°	436.9
57.5°	406.6
60°	374.2
62.5°	340.7
65°	306.2
67.5°	270.0
70°	232.8
72.5°	196.7
75°	161.6
77.5°	128.1
80°	96.7
82.5°	67.0
85°	39.9
87.5°	18.1
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	17.04	18.74	17.41	19.05	19.37	17.04	18.74	17.41	19.05	19.37
	3H	18.88	20.42	19.26	20.74	21.10	18.88	20.42	19.26	20.74	21.10
	4H	19.55	21.00	19.95	21.35	21.72	19.55	21.00	19.95	21.35	21.72
	6H	20.04	21.38	20.45	21.75	22.14	20.04	21.38	20.45	21.75	22.14
	8H	20.19	21.48	20.61	21.87	22.27	20.19	21.48	20.61	21.87	22.27
	12H	20.29	21.53	20.72	21.91	22.34	20.29	21.53	20.72	21.91	22.34
4H	2H	17.70	19.16	18.10	19.50	19.88	17.70	19.16	18.10	19.50	19.88
	3H	19.75	20.97	20.16	21.37	21.77	19.75	20.97	20.16	21.37	21.77
	4H	20.55	21.65	20.98	22.07	22.50	20.55	21.65	20.98	22.07	22.50
	6H	21.16	22.13	21.61	22.57	23.02	21.16	22.13	21.61	22.57	23.02
	8H	21.36	22.27	21.82	22.71	23.18	21.36	22.27	21.82	22.71	23.18
	12H	21.51	22.32	21.98	22.80	23.27	21.51	22.32	21.98	22.80	23.27
8H	4H	20.86	21.77	21.32	22.21	22.68	20.86	21.77	21.32	22.21	22.68
	6H	21.60	22.36	22.09	22.84	23.31	21.60	22.36	22.09	22.84	23.31
	8H	21.87	22.55	22.38	23.05	23.54	21.87	22.55	22.38	23.05	23.54
	12H	22.08	22.69	22.59	23.17	23.73	22.08	22.69	22.59	23.17	23.73
12H	4H	20.90	21.72	21.38	22.19	22.66	20.90	21.72	21.38	22.19	22.66
	6H	21.66	22.34	22.16	22.84	23.33	21.66	22.34	22.16	22.84	23.33
	8H	21.99	22.59	22.49	23.08	23.63	21.99	22.59	22.49	23.08	23.63