

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: P865613

Luminaire Tested: PRLX-2002-S-930-05L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-930-05L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

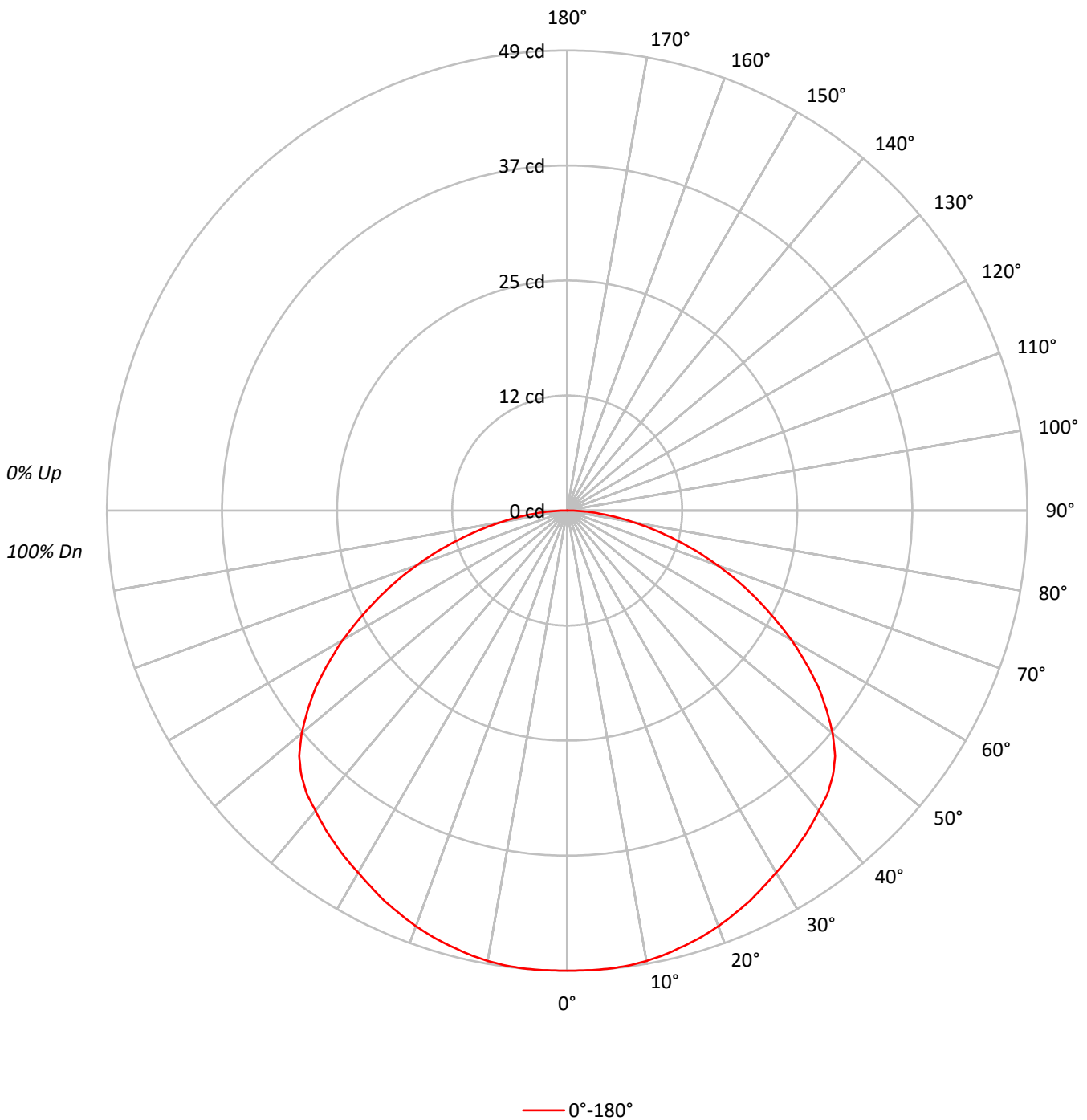
Lumens per Lamp: N/A
Luminaire Lumens: 164.7 lumens
Efficiency: N/A
Efficacy: 26.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.333 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	74	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	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	35	29		40	34	29	27
9	55	41	33	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	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	920
5°	924
10°	929
15°	933
20°	942
25°	951
30°	965
35°	991
40°	1023
45°	1063
50°	1078
55°	1068
60°	1037
65°	991
70°	934
75°	864
80°	779
85°	690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	2.8
10°-20°	13.6	8.2
20°-30°	21.2	12.9
30°-40°	27.1	16.4
40°-50°	30.7	18.7
50°-60°	29.0	17.6
60°-70°	22.1	13.4
70°-80°	12.7	7.7
80°-90°	3.7	2.2
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°	39.4	23.9
0°-40°	66.5	40.4
0°-60°	126.3	76.7
0°-90°	164.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	164.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	49	
5°	49	5
15°	48	14
25°	46	21
35°	43	27
45°	40	31
55°	33	29
65°	22	22
75°	12	13
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	49.0
2.5°	49.0
5°	49.0
7.5°	48.9
10°	48.7
12.5°	48.4
15°	48.0
17.5°	47.6
20°	47.1
22.5°	46.5
25°	45.9
27.5°	45.2
30°	44.5
32.5°	43.9
35°	43.2
37.5°	42.5
40°	41.7
42.5°	41.0
45°	40.0
47.5°	38.7
50°	36.9
52.5°	34.8
55°	32.6
57.5°	30.1
60°	27.6
62.5°	24.9
65°	22.3
67.5°	19.7
70°	17.0
72.5°	14.5
75°	11.9
77.5°	9.5
80°	7.2
82.5°	5.1
85°	3.2
87.5°	1.7
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	12.62	14.32	12.99	14.63	14.95	12.62	14.32	12.99	14.63	14.95
	3H	14.42	15.96	14.80	16.28	16.64	14.42	15.96	14.80	16.28	16.64
	4H	15.09	16.54	15.49	16.89	17.26	15.09	16.54	15.49	16.89	17.26
	6H	15.59	16.93	16.00	17.30	17.69	15.59	16.93	16.00	17.30	17.69
	8H	15.75	17.04	16.18	17.43	17.83	15.75	17.04	16.18	17.43	17.83
	12H	15.87	17.10	16.30	17.48	17.91	15.87	17.10	16.30	17.48	17.91
4H	2H	13.26	14.71	13.66	15.06	15.43	13.26	14.71	13.66	15.06	15.43
	3H	15.28	16.50	15.69	16.90	17.30	15.28	16.50	15.69	16.90	17.30
	4H	16.08	17.19	16.51	17.60	18.03	16.08	17.19	16.51	17.60	18.03
	6H	16.71	17.68	17.16	18.12	18.57	16.71	17.68	17.16	18.12	18.57
	8H	16.92	17.83	17.38	18.27	18.73	16.92	17.83	17.38	18.27	18.73
	12H	17.08	17.90	17.56	18.38	18.84	17.08	17.90	17.56	18.38	18.84
8H	4H	16.40	17.31	16.86	17.75	18.21	16.40	17.31	16.86	17.75	18.21
	6H	17.15	17.91	17.64	18.39	18.87	17.15	17.91	17.64	18.39	18.87
	8H	17.44	18.12	17.95	18.62	19.11	17.44	18.12	17.95	18.62	19.11
	12H	17.68	18.28	18.18	18.77	19.33	17.68	18.28	18.18	18.77	19.33
12H	4H	16.44	17.26	16.92	17.73	18.20	16.44	17.26	16.92	17.73	18.20
	6H	17.21	17.89	17.72	18.40	18.88	17.21	17.89	17.72	18.40	18.88
	8H	17.56	18.16	18.06	18.65	19.21	17.56	18.16	18.06	18.65	19.21