

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: P865573

Luminaire Tested: PRLX-2002-S-927-05L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865573
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-927-05L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

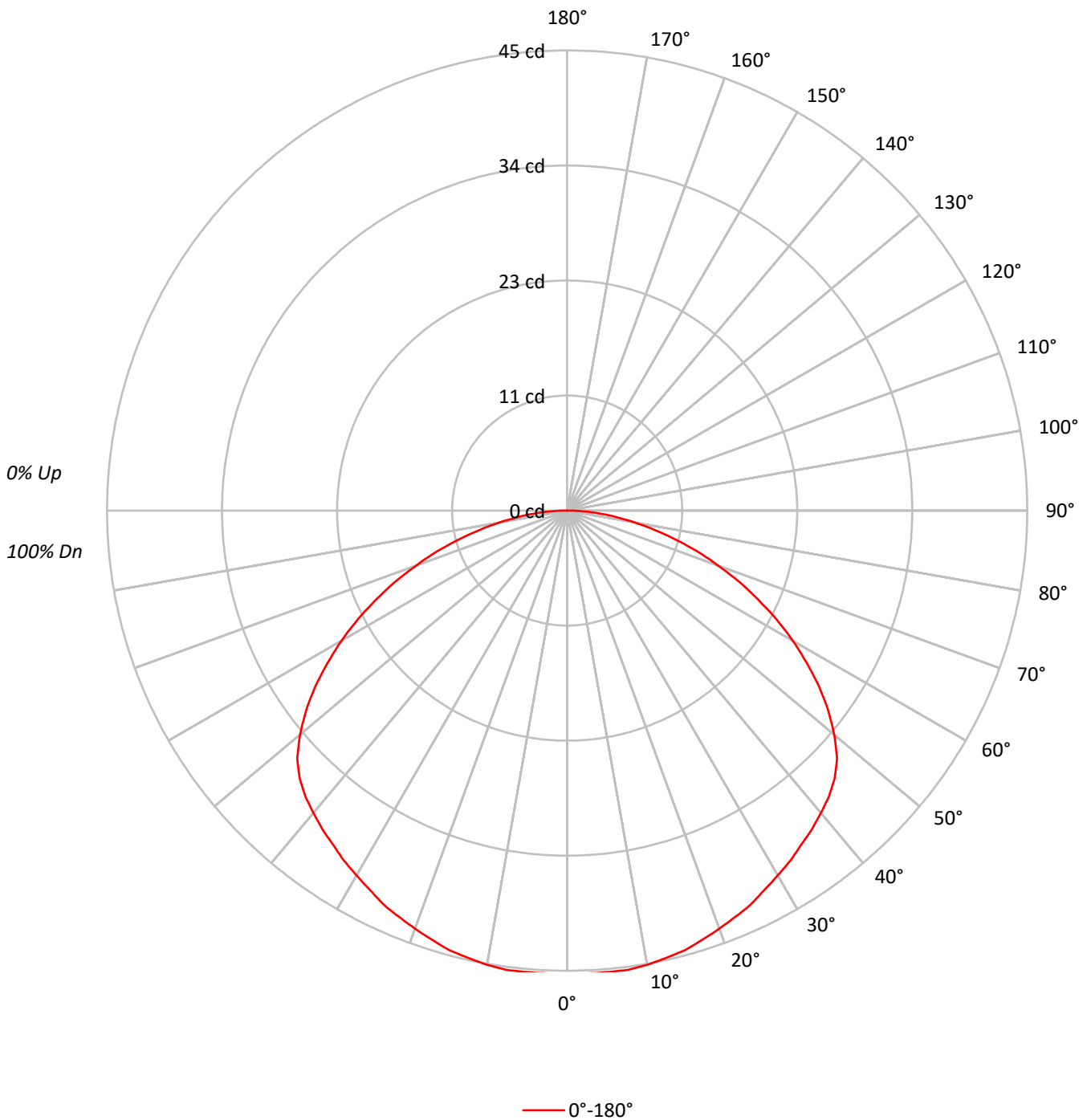
Lumens per Lamp: N/A
Luminaire Lumens: 152.4 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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°	851
5°	854
10°	860
15°	865
20°	870
25°	881
30°	894
35°	915
40°	947
45°	983
50°	997
55°	986
60°	958
65°	916
70°	862
75°	798
80°	725
85°	647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 997 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	2.8
10°-20°	12.6	8.2
20°-30°	19.6	12.9
30°-40°	25.0	16.4
40°-50°	28.4	18.7
50°-60°	26.8	17.6
60°-70°	20.4	13.4
70°-80°	11.7	7.7
80°-90°	3.5	2.3
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°	36.5	23.9
0°-40°	61.5	40.4
0°-60°	116.8	76.6
0°-90°	152.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	152.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	45	
5°	45	4
15°	44	13
25°	42	20
35°	40	25
45°	37	28
55°	30	27
65°	21	20
75°	11	12
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	45.3
2.5°	45.3
5°	45.3
7.5°	45.3
10°	45.1
12.5°	44.8
15°	44.5
17.5°	44.0
20°	43.5
22.5°	43.0
25°	42.5
27.5°	41.8
30°	41.2
32.5°	40.6
35°	39.9
37.5°	39.3
40°	38.6
42.5°	37.9
45°	37.0
47.5°	35.8
50°	34.1
52.5°	32.2
55°	30.1
57.5°	27.8
60°	25.5
62.5°	23.1
65°	20.6
67.5°	18.2
70°	15.7
72.5°	13.4
75°	11.0
77.5°	8.8
80°	6.7
82.5°	4.8
85°	3.0
87.5°	1.6
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	12.34	14.04	12.71	14.35	14.67	12.34	14.04	12.71	14.35	14.67
	3H	14.14	15.68	14.52	16.00	16.36	14.14	15.68	14.52	16.00	16.36
	4H	14.81	16.26	15.21	16.61	16.98	14.81	16.26	15.21	16.61	16.98
	6H	15.31	16.66	15.72	17.02	17.41	15.31	16.66	15.72	17.02	17.41
	8H	15.48	16.77	15.90	17.16	17.55	15.48	16.77	15.90	17.16	17.55
	12H	15.60	16.84	16.03	17.22	17.65	15.60	16.84	16.03	17.22	17.65
4H	2H	12.98	14.43	13.38	14.78	15.15	12.98	14.43	13.38	14.78	15.15
	3H	15.00	16.22	15.41	16.62	17.02	15.00	16.22	15.41	16.62	17.02
	4H	15.80	16.91	16.23	17.32	17.75	15.80	16.91	16.23	17.32	17.75
	6H	16.43	17.40	16.88	17.84	18.29	16.43	17.40	16.88	17.84	18.29
	8H	16.65	17.56	17.11	18.00	18.47	16.65	17.56	17.11	18.00	18.47
	12H	16.82	17.64	17.30	18.11	18.58	16.82	17.64	17.30	18.11	18.58
8H	4H	16.12	17.03	16.58	17.47	17.94	16.12	17.03	16.58	17.47	17.94
	6H	16.88	17.64	17.37	18.12	18.60	16.88	17.64	17.37	18.12	18.60
	8H	17.18	17.86	17.68	18.36	18.85	17.18	17.86	17.68	18.36	18.85
	12H	17.42	18.03	17.93	18.52	19.07	17.42	18.03	17.93	18.52	19.07
12H	4H	16.16	16.98	16.64	17.45	17.92	16.16	16.98	16.64	17.45	17.92
	6H	16.94	17.62	17.45	18.13	18.61	16.94	17.62	17.45	18.13	18.61
	8H	17.30	17.90	17.81	18.39	18.95	17.30	17.90	17.81	18.39	18.95