

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: P865685

Luminaire Tested: PRLX-2002-S-935-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865685
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-935-25L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

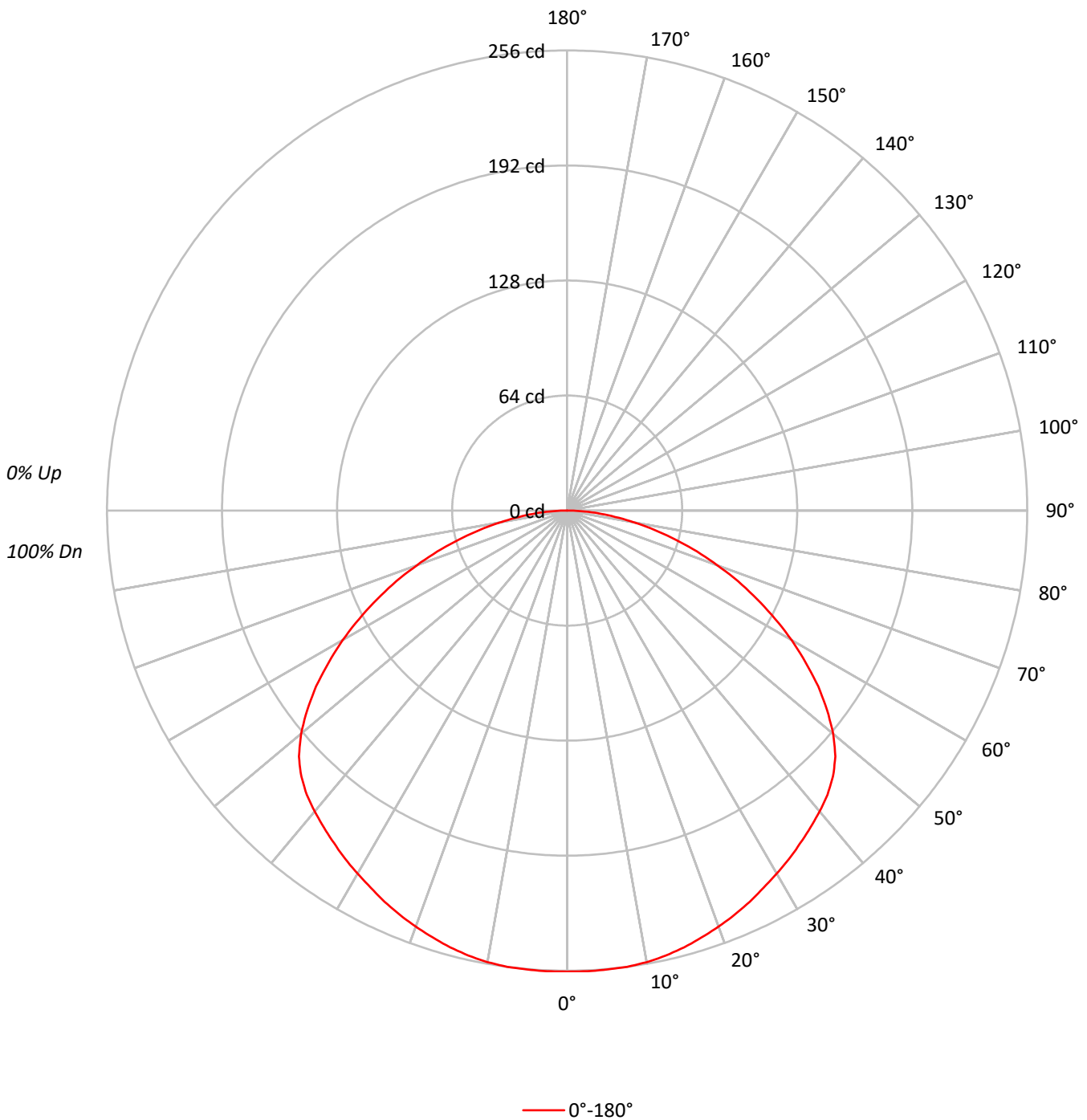
Lumens per Lamp: N/A
Luminaire Lumens: 862.1 lumens
Efficiency: N/A
Efficacy: 29.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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°	4818
5°	4833
10°	4866
15°	4891
20°	4923
25°	4978
30°	5058
35°	5182
40°	5358
45°	5557
50°	5646
55°	5584
60°	5421
65°	5178
70°	4883
75°	4529
80°	4089
85°	3664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5646 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	2.8
10°-20°	71.1	8.2
20°-30°	110.9	12.9
30°-40°	141.8	16.4
40°-50°	160.8	18.7
50°-60°	151.9	17.6
60°-70°	115.4	13.4
70°-80°	66.3	7.7
80°-90°	19.5	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°	206.4	23.9
0°-40°	348.2	40.4
0°-60°	660.9	76.7
0°-90°	862.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	256	
5°	256	24
15°	252	71
25°	240	111
35°	226	142
45°	209	161
55°	170	152
65°	116	115
75°	62	66
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	256.5
2.5°	256.5
5°	256.3
7.5°	256.0
10°	255.1
12.5°	253.6
15°	251.5
17.5°	249.0
20°	246.3
22.5°	243.4
25°	240.2
27.5°	236.6
30°	233.2
32.5°	229.8
35°	226.0
37.5°	222.3
40°	218.5
42.5°	214.4
45°	209.2
47.5°	202.4
50°	193.2
52.5°	182.3
55°	170.5
57.5°	157.4
60°	144.3
62.5°	130.5
65°	116.5
67.5°	102.9
70°	88.9
72.5°	75.8
75°	62.4
77.5°	50.0
80°	37.8
82.5°	26.9
85°	17.0
87.5°	8.8
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	18.37	20.06	18.73	20.38	20.69	18.37	20.06	18.73	20.38	20.69
	3H	20.16	21.70	20.54	22.03	22.39	20.16	21.70	20.54	22.03	22.39
	4H	20.84	22.29	21.23	22.63	23.01	20.84	22.29	21.23	22.63	23.01
	6H	21.34	22.69	21.75	23.05	23.44	21.34	22.69	21.75	23.05	23.44
	8H	21.50	22.79	21.93	23.18	23.58	21.50	22.79	21.93	23.18	23.58
	12H	21.62	22.86	22.05	23.24	23.67	21.62	22.86	22.05	23.24	23.67
4H	2H	19.01	20.46	19.40	20.80	21.18	19.01	20.46	19.40	20.80	21.18
	3H	21.02	22.25	21.43	22.64	23.04	21.02	22.25	21.43	22.64	23.04
	4H	21.83	22.93	22.26	23.34	23.78	21.83	22.93	22.26	23.34	23.78
	6H	22.46	23.43	22.91	23.87	24.32	22.46	23.43	22.91	23.87	24.32
	8H	22.68	23.58	23.13	24.02	24.49	22.68	23.58	23.13	24.02	24.49
	12H	22.84	23.66	23.32	24.14	24.60	22.84	23.66	23.32	24.14	24.60
8H	4H	22.15	23.06	22.61	23.50	23.96	22.15	23.06	22.61	23.50	23.96
	6H	22.91	23.66	23.40	24.15	24.62	22.91	23.66	23.40	24.15	24.62
	8H	23.20	23.88	23.70	24.38	24.87	23.20	23.88	23.70	24.38	24.87
	12H	23.44	24.05	23.95	24.54	25.09	23.44	24.05	23.95	24.54	25.09
12H	4H	22.19	23.01	22.67	23.48	23.95	22.19	23.01	22.67	23.48	23.95
	6H	22.97	23.65	23.47	24.15	24.64	22.97	23.65	23.47	24.15	24.64
	8H	23.32	23.92	23.82	24.41	24.97	23.32	23.92	23.82	24.41	24.97