

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: P865645

Luminaire Tested: PRLX-2002-S-930-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865645
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-930-25L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

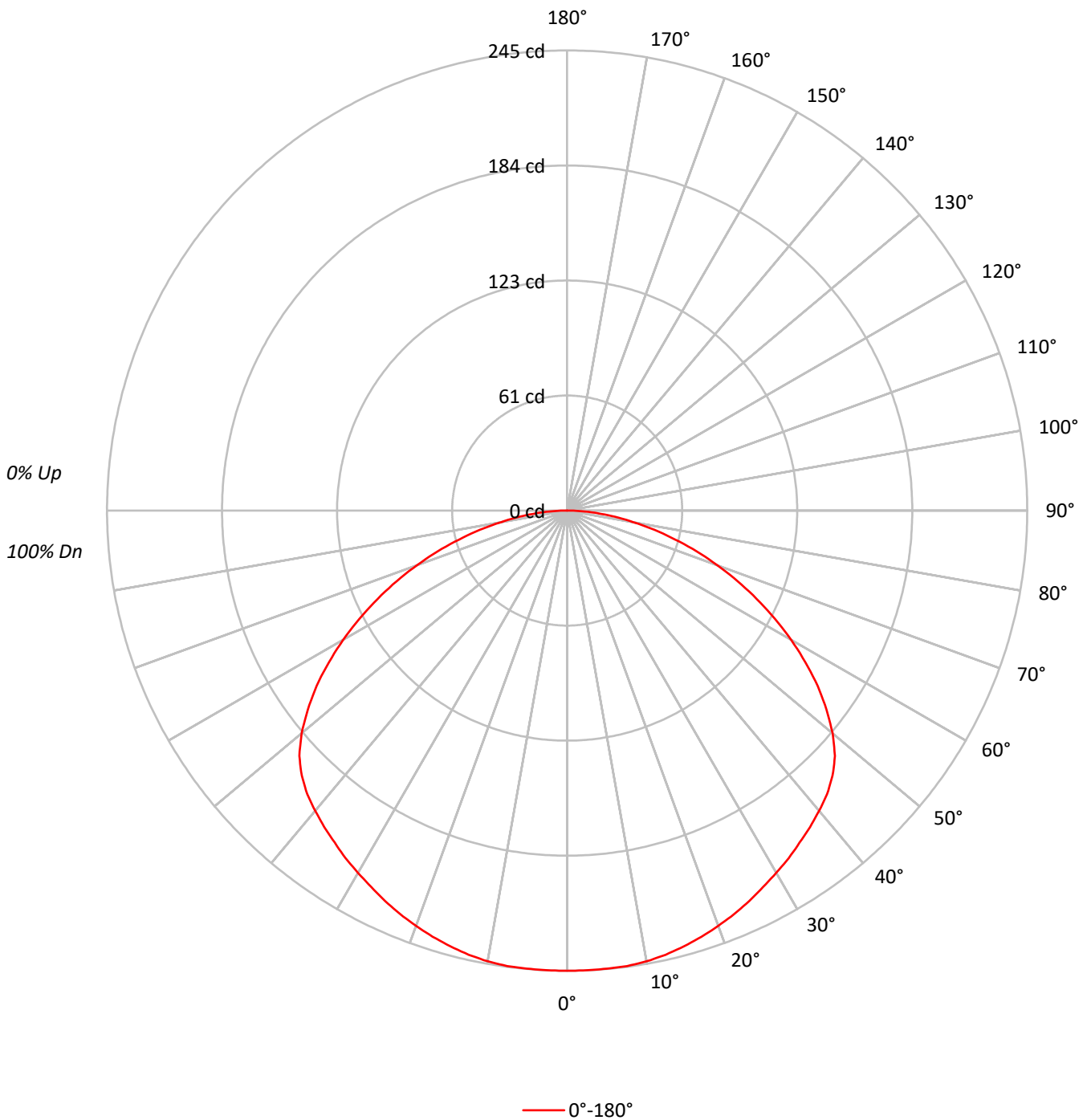
Lumens per Lamp: N/A
Luminaire Lumens: 823.4 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4602
5°	4616
10°	4648
15°	4671
20°	4704
25°	4755
30°	4830
35°	4949
40°	5118
45°	5308
50°	5392
55°	5335
60°	5177
65°	4947
70°	4663
75°	4326
80°	3905
85°	3492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5392 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	2.8
10°-20°	67.9	8.2
20°-30°	105.9	12.9
30°-40°	135.4	16.4
40°-50°	153.6	18.7
50°-60°	145.1	17.6
60°-70°	110.3	13.4
70°-80°	63.3	7.7
80°-90°	18.6	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°	197.2	23.9
0°-40°	332.6	40.4
0°-60°	631.2	76.7
0°-90°	823.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	245	
5°	245	23
15°	240	68
25°	229	106
35°	216	135
45°	200	154
55°	163	145
65°	111	110
75°	60	63
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	245.0
2.5°	245.0
5°	244.8
7.5°	244.6
10°	243.7
12.5°	242.2
15°	240.2
17.5°	237.9
20°	235.3
22.5°	232.5
25°	229.4
27.5°	226.0
30°	222.7
32.5°	219.5
35°	215.8
37.5°	212.4
40°	208.7
42.5°	204.8
45°	199.8
47.5°	193.4
50°	184.5
52.5°	174.1
55°	162.9
57.5°	150.4
60°	137.8
62.5°	124.7
65°	111.3
67.5°	98.3
70°	84.9
72.5°	72.4
75°	59.6
77.5°	47.7
80°	36.1
82.5°	25.7
85°	16.2
87.5°	8.4
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	18.21	19.91	18.58	20.22	20.53	18.21	19.91	18.58	20.22	20.53
	3H	20.01	21.54	20.38	21.87	22.23	20.01	21.54	20.38	21.87	22.23
	4H	20.68	22.13	21.08	22.48	22.85	20.68	22.13	21.08	22.48	22.85
	6H	21.18	22.53	21.59	22.89	23.28	21.18	22.53	21.59	22.89	23.28
	8H	21.35	22.63	21.77	23.02	23.42	21.35	22.63	21.77	23.02	23.42
	12H	21.46	22.70	21.89	23.08	23.51	21.46	22.70	21.89	23.08	23.51
4H	2H	18.85	20.30	19.25	20.65	21.02	18.85	20.30	19.25	20.65	21.02
	3H	20.87	22.09	21.27	22.48	22.88	20.87	22.09	21.27	22.48	22.88
	4H	21.67	22.77	22.10	23.19	23.62	21.67	22.77	22.10	23.19	23.62
	6H	22.30	23.27	22.75	23.71	24.16	22.30	23.27	22.75	23.71	24.16
	8H	22.52	23.42	22.97	23.87	24.33	22.52	23.42	22.97	23.87	24.33
	12H	22.68	23.50	23.16	23.98	24.44	22.68	23.50	23.16	23.98	24.44
8H	4H	21.99	22.90	22.45	23.34	23.80	21.99	22.90	22.45	23.34	23.80
	6H	22.75	23.50	23.24	23.99	24.46	22.75	23.50	23.24	23.99	24.46
	8H	23.04	23.72	23.54	24.22	24.71	23.04	23.72	23.54	24.22	24.71
	12H	23.28	23.89	23.79	24.38	24.93	23.28	23.89	23.79	24.38	24.93
12H	4H	22.03	22.85	22.51	23.32	23.79	22.03	22.85	22.51	23.32	23.79
	6H	22.81	23.49	23.31	23.99	24.48	22.81	23.49	23.31	23.99	24.48
	8H	23.16	23.76	23.66	24.25	24.81	23.16	23.76	23.66	24.25	24.81