

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: P865949

Luminaire Tested: PRLX-2001-M-927-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-M-927-75L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

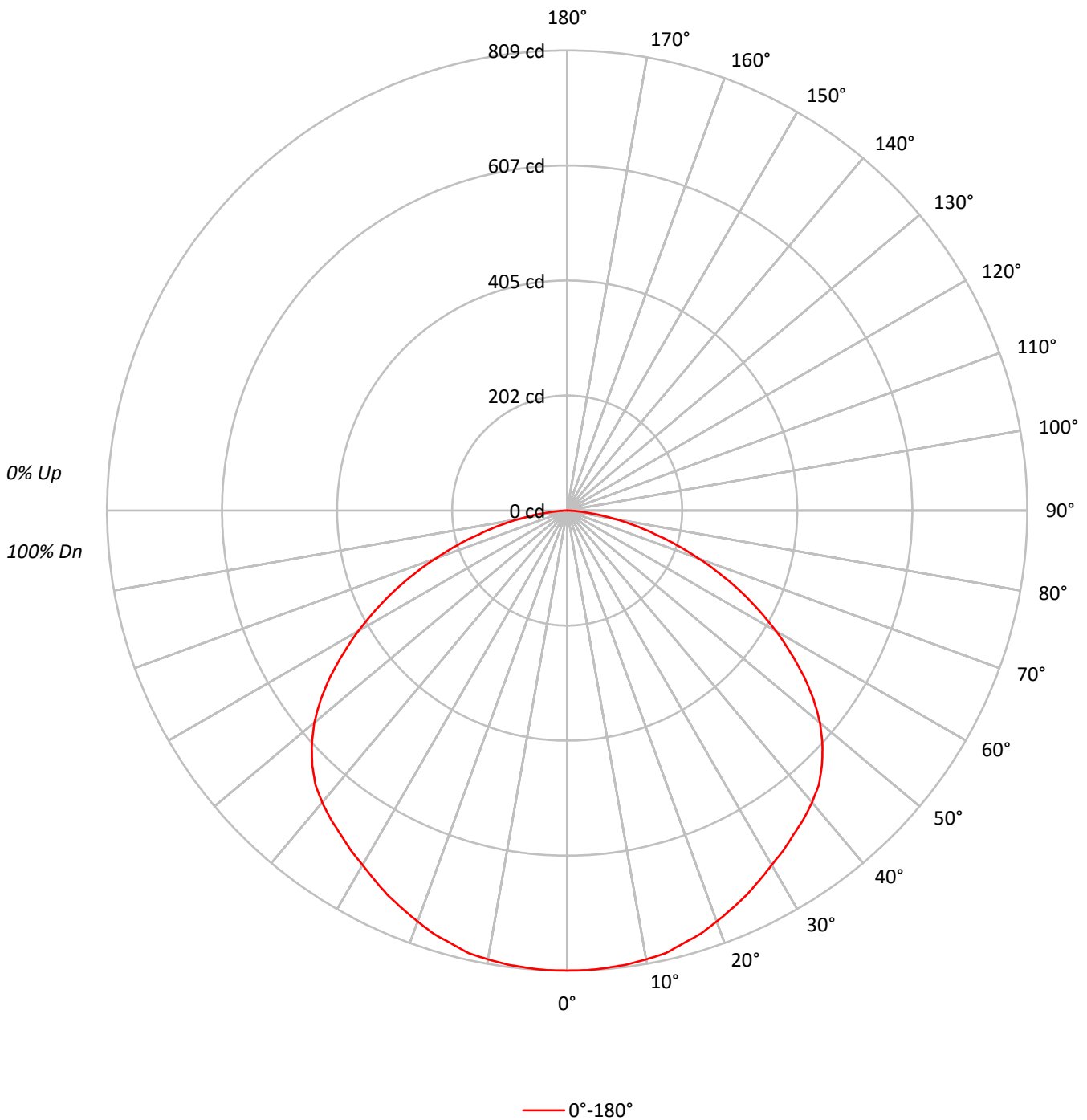
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2558.8 lumens  
Efficiency: N/A  
Efficacy: 36.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	6863
5°	6874
10°	6903
15°	6921
20°	6943
25°	6985
30°	7048
35°	7196
40°	7420
45°	7605
50°	7662
55°	7517
60°	7203
65°	6763
70°	6091
75°	5239
80°	4183
85°	2590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 7662 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	222.8	8.7
20°-30°	344.2	13.5
30°-40°	436.0	17.0
40°-50°	487.4	19.0
50°-60°	452.4	17.7
60°-70°	332.3	13.0
70°-80°	171.5	6.7
80°-90°	35.4	1.4
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°	643.8	25.2
0°-40°	1079.8	42.2
0°-60°	2019.6	78.9
0°-90°	2558.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	809	
5°	807	77
15°	788	223
25°	746	344
35°	695	436
45°	634	487
55°	508	452
65°	337	332
75°	160	171
85°	27	35
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	808.8
2.5°	808.8
5°	806.9
7.5°	805.0
10°	801.1
12.5°	797.3
15°	787.8
17.5°	780.2
20°	768.8
22.5°	757.4
25°	746.0
27.5°	732.6
30°	719.3
32.5°	707.9
35°	694.6
37.5°	683.2
40°	669.8
42.5°	654.6
45°	633.7
47.5°	608.9
50°	580.4
52.5°	546.2
55°	508.1
57.5°	466.2
60°	424.4
62.5°	380.6
65°	336.8
67.5°	291.2
70°	245.5
72.5°	203.6
75°	159.8
77.5°	121.8
80°	85.6
82.5°	53.3
85°	26.6
87.5°	7.6
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	19.40	21.07	19.77	21.39	21.70	19.40	21.07	19.77	21.39	21.70
	3H	21.05	22.55	21.42	22.88	23.24	21.05	22.55	21.42	22.88	23.24
	4H	21.59	23.01	21.99	23.36	23.73	21.59	23.01	21.99	23.36	23.73
	6H	21.93	23.25	22.34	23.61	24.00	21.93	23.25	22.34	23.61	24.00
	8H	22.02	23.27	22.44	23.66	24.06	22.02	23.27	22.44	23.66	24.06
	12H	22.05	23.25	22.48	23.64	24.06	22.05	23.25	22.48	23.64	24.06
4H	2H	20.01	21.43	20.41	21.78	22.15	20.01	21.43	20.41	21.78	22.15
	3H	21.85	23.04	22.26	23.44	23.84	21.85	23.04	22.26	23.44	23.84
	4H	22.51	23.58	22.94	23.99	24.43	22.51	23.58	22.94	23.99	24.43
	6H	22.95	23.89	23.41	24.33	24.79	22.95	23.89	23.41	24.33	24.79
	8H	23.06	23.94	23.52	24.38	24.85	23.06	23.94	23.52	24.38	24.85
	12H	23.12	23.91	23.60	24.39	24.85	23.12	23.91	23.60	24.39	24.85
8H	4H	22.76	23.63	23.22	24.08	24.54	22.76	23.63	23.22	24.08	24.54
	6H	23.29	24.02	23.78	24.50	24.98	23.29	24.02	23.78	24.50	24.98
	8H	23.44	24.10	23.95	24.60	25.09	23.44	24.10	23.95	24.60	25.09
	12H	23.54	24.12	24.05	24.61	25.17	23.54	24.12	24.05	24.61	25.17
12H	4H	22.78	23.56	23.26	24.04	24.51	22.78	23.56	23.26	24.04	24.51
	6H	23.31	23.97	23.82	24.47	24.96	23.31	23.97	23.82	24.47	24.96
	8H	23.51	24.09	24.02	24.58	25.14	23.51	24.09	24.02	24.58	25.14