

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: P866332

Luminaire Tested: PRLX-2002-M-935-75L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-M-935-75L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

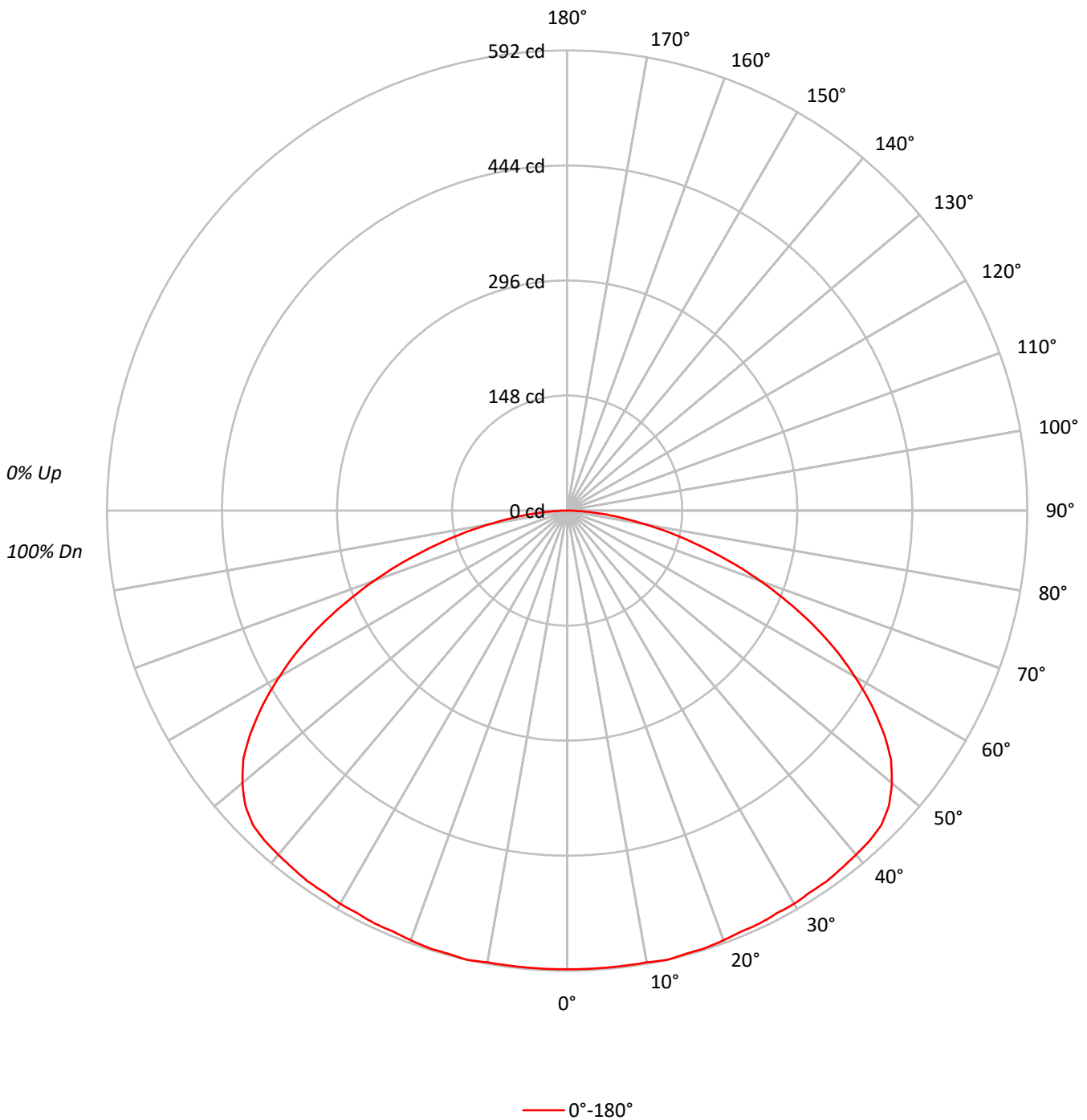
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2325.1 lumens  
Efficiency: N/A  
Efficacy: 33.4 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67  
Luminous Opening: Circular (Dia: 1.31' 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: 0.5 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	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

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

	0°
0°	4695
5°	4713
10°	4768
15°	4861
20°	4980
25°	5145
30°	5366
35°	5653
40°	6003
45°	6435
50°	6750
55°	6888
60°	6801
65°	6589
70°	6155
75°	5505
80°	4664
85°	3715

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 6888 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	2.4
10°-20°	167.3	7.2
20°-30°	271.0	11.7
30°-40°	365.1	15.7
40°-50°	439.4	18.9
50°-60°	441.3	19.0
60°-70°	344.9	14.8
70°-80°	191.0	8.2
80°-90°	48.7	2.1
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°	494.7	21.3
0°-40°	859.8	37.0
0°-60°	1740.5	74.9
0°-90°	2325.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	590	
5°	590	56
15°	590	167
25°	586	271
35°	582	365
45°	572	439
55°	497	441
65°	350	345
75°	179	191
85°	41	49
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	590.2
2.5°	590.2
5°	590.2
7.5°	590.2
10°	590.2
12.5°	592.2
15°	590.2
17.5°	590.2
20°	588.2
22.5°	586.1
25°	586.1
27.5°	584.1
30°	584.1
32.5°	582.1
35°	582.1
37.5°	580.0
40°	578.0
42.5°	576.0
45°	571.9
47.5°	561.7
50°	545.4
52.5°	525.1
55°	496.6
57.5°	464.0
60°	427.4
62.5°	390.8
65°	350.0
67.5°	307.3
70°	264.6
72.5°	221.8
75°	179.1
77.5°	140.4
80°	101.8
82.5°	69.2
85°	40.7
87.5°	18.3
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	21.13	19.76	21.45	21.76	19.40	21.13	19.76	21.45	21.76
	3H	21.23	22.81	21.61	23.13	23.49	21.23	22.81	21.61	23.13	23.49
	4H	21.87	23.36	22.27	23.71	24.08	21.87	23.36	22.27	23.71	24.08
	6H	22.32	23.70	22.73	24.06	24.45	22.32	23.70	22.73	24.06	24.45
	8H	22.45	23.77	22.87	24.16	24.55	22.45	23.77	22.87	24.16	24.55
	12H	22.53	23.80	22.96	24.18	24.61	22.53	23.80	22.96	24.18	24.61
4H	2H	20.07	21.56	20.47	21.90	22.28	20.07	21.56	20.47	21.90	22.28
	3H	22.11	23.36	22.52	23.76	24.16	22.11	23.36	22.52	23.76	24.16
	4H	22.87	24.01	23.30	24.42	24.85	22.87	24.01	23.30	24.42	24.85
	6H	23.43	24.43	23.88	24.87	25.32	23.43	24.43	23.88	24.87	25.32
	8H	23.60	24.54	24.06	24.98	25.44	23.60	24.54	24.06	24.98	25.44
	12H	23.72	24.56	24.20	25.04	25.50	23.72	24.56	24.20	25.04	25.50
8H	4H	23.18	24.11	23.63	24.55	25.01	23.18	24.11	23.63	24.55	25.01
	6H	23.84	24.62	24.33	25.11	25.58	23.84	24.62	24.33	25.11	25.58
	8H	24.08	24.78	24.58	25.28	25.76	24.08	24.78	24.58	25.28	25.76
	12H	24.26	24.88	24.76	25.37	25.92	24.26	24.88	24.76	25.37	25.92
12H	4H	23.21	24.05	23.69	24.53	24.99	23.21	24.05	23.69	24.53	24.99
	6H	23.89	24.59	24.40	25.09	25.58	23.89	24.59	24.40	25.09	25.58
	8H	24.18	24.80	24.68	25.29	25.84	24.18	24.80	24.68	25.29	25.84