

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: P866274

Luminaire Tested: PRLX-2002-M-930-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-M-930-75L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

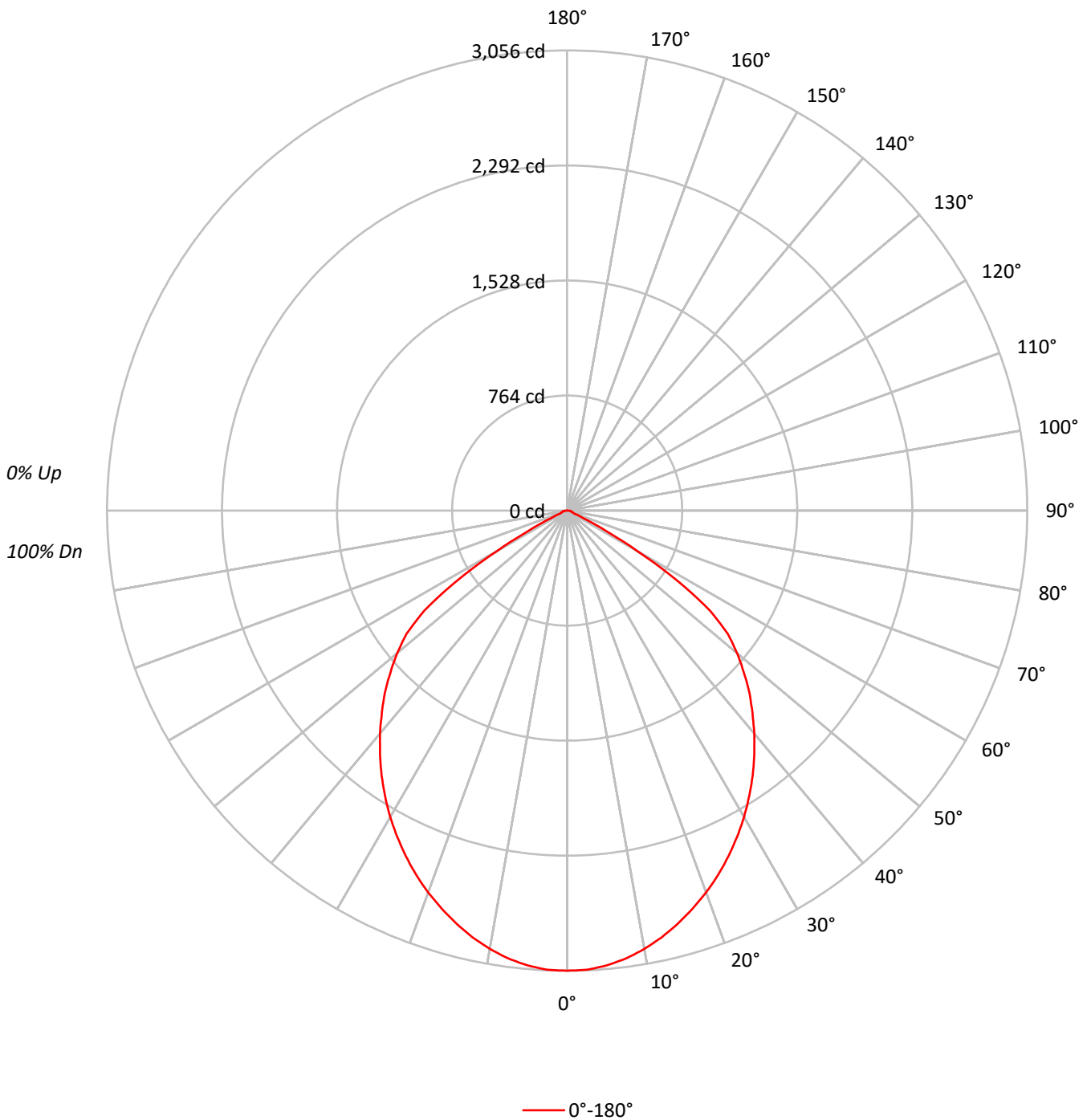
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6120.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

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

	0°
0°	24313
5°	24214
10°	23882
15°	23396
20°	22850
25°	22238
30°	21586
35°	20865
40°	20074
45°	19256
50°	18245
55°	16074
60°	8570
65°	2253
70°	928
75°	1042
80°	1187
85°	1461

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19256 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.0	4.7
10°-20°	800.0	13.1
20°-30°	1166.4	19.1
30°-40°	1342.4	21.9
40°-50°	1317.1	21.5
50°-60°	975.6	15.9
60°-70°	180.1	2.9
70°-80°	35.5	0.6
80°-90°	16.0	0.3
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°	2253.3	36.8
0°-40°	3595.8	58.8
0°-60°	5888.5	96.2
0°-90°	6120.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3056	
5°	3032	287
15°	2840	800
25°	2533	1166
35°	2148	1342
45°	1712	1317
55°	1159	976
65°	120	180
75°	34	36
85°	16	16
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3056.0
2.5°	3052.0
5°	3032.0
7.5°	3000.1
10°	2956.2
12.5°	2902.4
15°	2840.5
17.5°	2770.7
20°	2698.9
22.5°	2619.1
25°	2533.3
27.5°	2443.6
30°	2349.8
32.5°	2250.1
35°	2148.3
37.5°	2040.6
40°	1932.9
42.5°	1821.2
45°	1711.5
47.5°	1591.8
50°	1474.1
52.5°	1344.5
55°	1158.9
57.5°	875.7
60°	538.6
62.5°	277.3
65°	119.7
67.5°	51.9
70°	39.9
72.5°	37.9
75°	33.9
77.5°	29.9
80°	25.9
82.5°	21.9
85°	16.0
87.5°	8.0
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	20.68	22.11	21.05	22.42	22.74	20.68	22.11	21.05	22.42	22.74
	3H	20.58	21.84	20.96	22.17	22.53	20.58	21.84	20.96	22.17	22.53
	4H	20.53	21.70	20.93	22.05	22.43	20.53	21.70	20.93	22.05	22.43
	6H	20.47	21.55	20.89	21.91	22.31	20.47	21.55	20.89	21.91	22.31
	8H	20.44	21.46	20.87	21.85	22.25	20.44	21.46	20.87	21.85	22.25
	12H	20.41	21.39	20.85	21.77	22.20	20.41	21.39	20.85	21.77	22.20
4H	2H	20.53	21.70	20.94	22.05	22.43	20.53	21.70	20.94	22.05	22.43
	3H	20.45	21.39	20.86	21.79	22.19	20.45	21.39	20.86	21.79	22.19
	4H	20.39	21.22	20.82	21.64	22.08	20.39	21.22	20.82	21.64	22.08
	6H	20.34	21.06	20.80	21.51	21.97	20.34	21.06	20.80	21.51	21.97
	8H	20.31	20.98	20.77	21.43	21.90	20.31	20.98	20.77	21.43	21.90
	12H	20.28	20.88	20.77	21.36	21.84	20.28	20.88	20.77	21.36	21.84
8H	4H	20.27	20.95	20.74	21.39	21.86	20.27	20.95	20.74	21.39	21.86
	6H	20.21	20.77	20.71	21.26	21.74	20.21	20.77	20.71	21.26	21.74
	8H	20.17	20.68	20.69	21.20	21.69	20.17	20.68	20.69	21.20	21.69
	12H	20.16	20.61	20.67	21.11	21.68	20.16	20.61	20.67	21.11	21.68
12H	4H	20.23	20.83	20.71	21.31	21.78	20.23	20.83	20.71	21.31	21.78
	6H	20.15	20.66	20.67	21.17	21.66	20.15	20.66	20.67	21.17	21.66
	8H	20.14	20.59	20.65	21.09	21.66	20.14	20.59	20.65	21.09	21.66