

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: P866527

Luminaire Tested: PRLX-2004-M-930-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-M-930-75L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

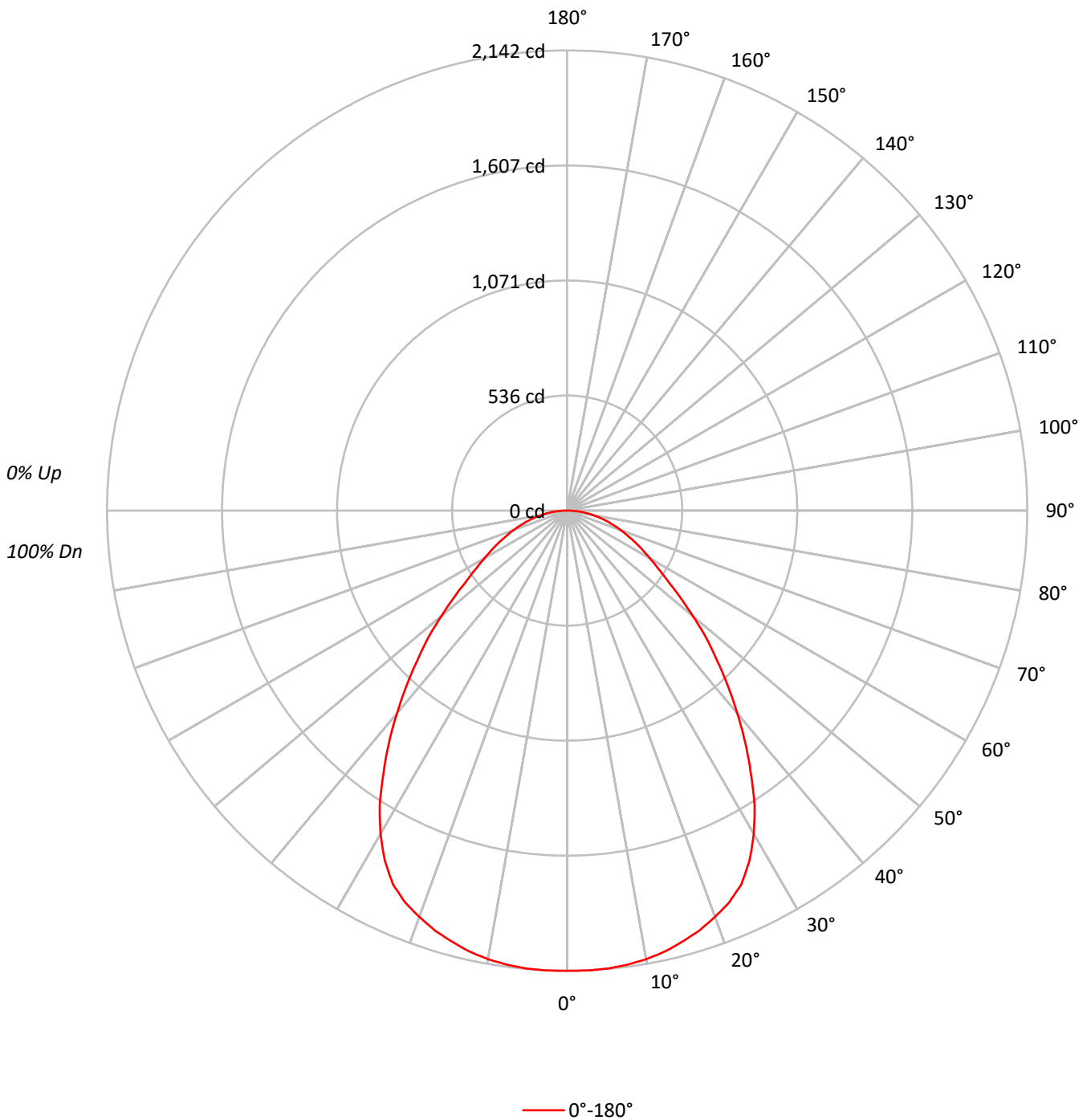
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4499.3 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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: 0.5 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	17044
5°	17094
10°	17130
15°	17103
20°	17040
25°	16845
30°	15961
35°	14472
40°	12803
45°	11109
50°	9456
55°	7941
60°	7077
65°	6572
70°	6171
75°	5886
80°	5667
85°	5459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11109 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.6	4.5
10°-20°	586.2	13.0
20°-30°	876.2	19.5
30°-40°	930.0	20.7
40°-50°	763.8	17.0
50°-60°	522.5	11.6
60°-70°	347.4	7.7
70°-80°	203.4	4.5
80°-90°	66.2	1.5
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°	1666.1	37.0
0°-40°	2596.0	57.7
0°-60°	3882.4	86.3
0°-90°	4499.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4499.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2142	
5°	2140	204
15°	2076	586
25°	1919	876
35°	1490	930
45°	987	764
55°	572	523
65°	349	347
75°	192	203
85°	60	66
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2142.4
2.5°	2142.4
5°	2140.4
7.5°	2132.4
10°	2120.4
12.5°	2102.5
15°	2076.5
17.5°	2048.6
20°	2012.7
22.5°	1972.8
25°	1918.9
27.5°	1837.2
30°	1737.4
32.5°	1623.7
35°	1490.1
37.5°	1362.4
40°	1232.8
42.5°	1107.1
45°	987.4
47.5°	877.7
50°	764.0
52.5°	662.3
55°	572.5
57.5°	502.7
60°	444.8
62.5°	395.0
65°	349.1
67.5°	305.2
70°	265.3
72.5°	227.4
75°	191.5
77.5°	157.6
80°	123.7
82.5°	91.8
85°	59.8
87.5°	29.9
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	17.98	19.45	18.35	19.77	20.08	17.98	19.45	18.35	19.77	20.08
	3H	19.56	20.88	19.94	21.21	21.57	19.56	20.88	19.94	21.21	21.57
	4H	20.20	21.44	20.60	21.79	22.17	20.20	21.44	20.60	21.79	22.17
	6H	20.73	21.87	21.14	22.24	22.63	20.73	21.87	21.14	22.24	22.63
	8H	20.92	22.00	21.34	22.39	22.80	20.92	22.00	21.34	22.39	22.80
	12H	21.06	22.10	21.49	22.48	22.91	21.06	22.10	21.49	22.48	22.91
4H	2H	18.51	19.75	18.91	20.09	20.47	18.51	19.75	18.91	20.09	20.47
	3H	20.33	21.36	20.74	21.76	22.16	20.33	21.36	20.74	21.76	22.16
	4H	21.11	22.03	21.54	22.45	22.89	21.11	22.03	21.54	22.45	22.89
	6H	21.77	22.58	22.23	23.02	23.48	21.77	22.58	22.23	23.02	23.48
	8H	22.02	22.77	22.48	23.22	23.69	22.02	22.77	22.48	23.22	23.69
	12H	22.22	22.89	22.70	23.37	23.84	22.22	22.89	22.70	23.37	23.84
8H	4H	21.40	22.15	21.86	22.60	23.07	21.40	22.15	21.86	22.60	23.07
	6H	22.21	22.83	22.70	23.32	23.80	22.21	22.83	22.70	23.32	23.80
	8H	22.54	23.10	23.06	23.61	24.10	22.54	23.10	23.06	23.61	24.10
	12H	22.83	23.33	23.34	23.82	24.39	22.83	23.33	23.34	23.82	24.39
12H	4H	21.43	22.10	21.91	22.58	23.05	21.43	22.10	21.91	22.58	23.05
	6H	22.27	22.83	22.78	23.34	23.83	22.27	22.83	22.78	23.34	23.83
	8H	22.67	23.17	23.18	23.66	24.22	22.67	23.17	23.18	23.66	24.22