

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: P866350

Luminaire Tested: PRLX-2002-M-940-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-940-15L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

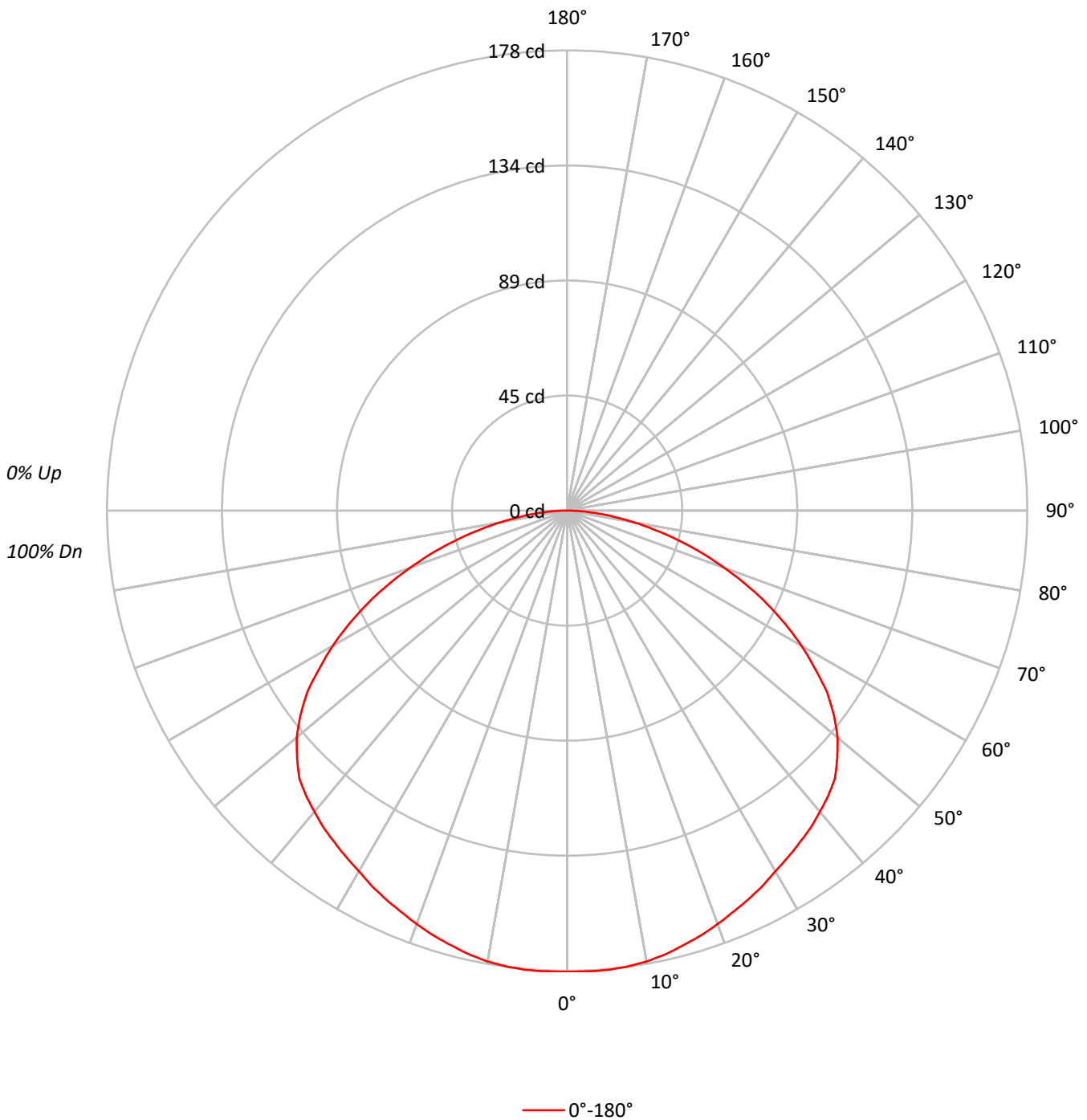
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 607.0 lumens  
Efficiency: N/A  
Efficacy: 43.4 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

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

	0°
0°	1419
5°	1425
10°	1431
15°	1433
20°	1441
25°	1456
30°	1480
35°	1523
40°	1580
45°	1648
50°	1691
55°	1703
60°	1666
65°	1606
70°	1503
75°	1377
80°	1205
85°	986

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 1703 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.0	2.8
10°-20°	49.2	8.1
20°-30°	76.6	12.6
30°-40°	98.4	16.2
40°-50°	112.5	18.5
50°-60°	109.0	18.0
60°-70°	84.2	13.9
70°-80°	47.4	7.8
80°-90°	12.7	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°	142.8	23.5
0°-40°	241.2	39.7
0°-60°	462.7	76.2
0°-90°	607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	607.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	178	
5°	178	17
15°	174	49
25°	166	77
35°	157	98
45°	146	113
55°	123	109
65°	85	84
75°	45	47
85°	11	13
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	178.4
2.5°	178.4
5°	178.4
7.5°	177.9
10°	177.1
12.5°	175.8
15°	174.0
17.5°	172.3
20°	170.2
22.5°	168.0
25°	165.9
27.5°	163.7
30°	161.1
32.5°	159.0
35°	156.8
37.5°	154.7
40°	152.1
42.5°	149.5
45°	146.5
47.5°	141.7
50°	136.6
52.5°	130.1
55°	122.8
57.5°	113.7
60°	104.7
62.5°	95.2
65°	85.3
67.5°	75.0
70°	64.6
72.5°	54.7
75°	44.8
77.5°	34.9
80°	26.3
82.5°	18.1
85°	10.8
87.5°	4.7
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	14.33	16.04	14.70	16.35	16.67	14.33	16.04	14.70	16.35	16.67
	3H	16.15	17.70	16.53	18.02	18.38	16.15	17.70	16.53	18.02	18.38
	4H	16.82	18.27	17.21	18.62	18.99	16.82	18.27	17.21	18.62	18.99
	6H	17.28	18.63	17.69	19.00	19.39	17.28	18.63	17.69	19.00	19.39
	8H	17.43	18.72	17.85	19.11	19.51	17.43	18.72	17.85	19.11	19.51
	12H	17.52	18.76	17.95	19.14	19.57	17.52	18.76	17.95	19.14	19.57
4H	2H	14.99	16.45	15.39	16.80	17.17	14.99	16.45	15.39	16.80	17.17
	3H	17.02	18.25	17.43	18.64	19.04	17.02	18.25	17.43	18.64	19.04
	4H	17.81	18.92	18.24	19.33	19.77	17.81	18.92	18.24	19.33	19.77
	6H	18.40	19.37	18.85	19.81	20.26	18.40	19.37	18.85	19.81	20.26
	8H	18.59	19.50	19.05	19.94	20.41	18.59	19.50	19.05	19.94	20.41
	12H	18.73	19.55	19.20	20.02	20.49	18.73	19.55	19.20	20.02	20.49
8H	4H	18.12	19.03	18.58	19.47	19.94	18.12	19.03	18.58	19.47	19.94
	6H	18.82	19.59	19.32	20.07	20.54	18.82	19.59	19.32	20.07	20.54
	8H	19.09	19.77	19.59	20.27	20.76	19.09	19.77	19.59	20.27	20.76
	12H	19.29	19.89	19.79	20.38	20.94	19.29	19.89	19.79	20.38	20.94
12H	4H	18.16	18.98	18.63	19.45	19.92	18.16	18.98	18.63	19.45	19.92
	6H	18.88	19.56	19.39	20.07	20.55	18.88	19.56	19.39	20.07	20.55
	8H	19.20	19.80	19.70	20.29	20.85	19.20	19.80	19.70	20.29	20.85