

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: P866394

Luminaire Tested: PRLX-2002-M-940-65L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866394  
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: Prenalux  
Catalog Number: PRLX-2002-M-940-65L-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 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

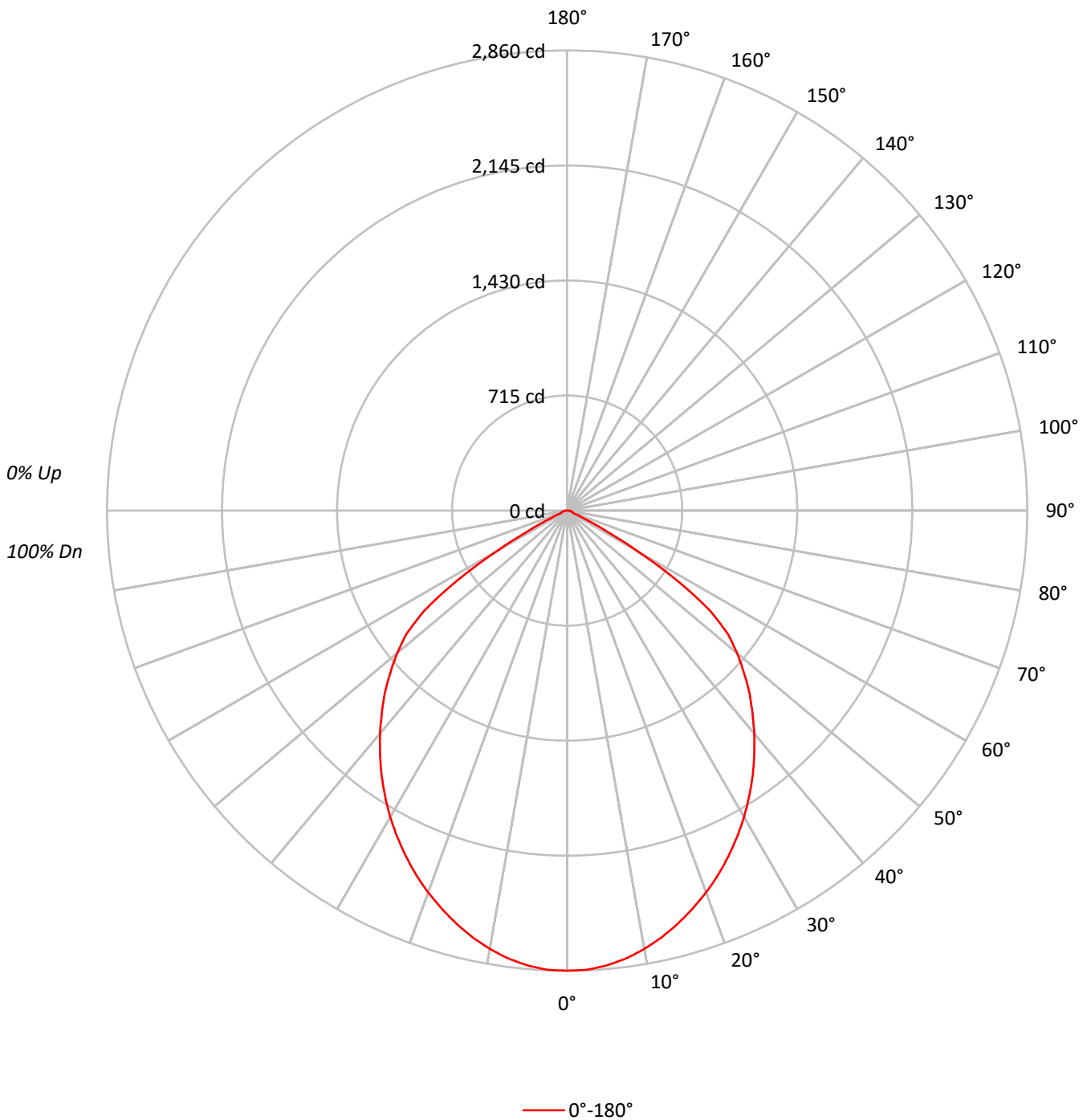
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5727.6 lumens  
Efficiency: N/A  
Efficacy: 97.7 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): 58.6  
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	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°	22753
5°	22662
10°	22350
15°	21896
20°	21384
25°	20812
30°	20202
35°	19527
40°	18786
45°	18021
50°	17075
55°	15044
60°	8019
65°	2108
70°	868
75°	974
80°	1113
85°	1360

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18021 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	4.7
10°-20°	748.7	13.1
20°-30°	1091.6	19.1
30°-40°	1256.4	21.9
40°-50°	1232.7	21.5
50°-60°	913.0	15.9
60°-70°	168.5	2.9
70°-80°	33.3	0.6
80°-90°	15.0	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°	2108.8	36.8
0°-40°	3365.2	58.8
0°-60°	5510.9	96.2
0°-90°	5727.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5727.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2860	
5°	2838	269
15°	2658	749
25°	2371	1092
35°	2011	1256
45°	1602	1233
55°	1085	913
65°	112	169
75°	32	33
85°	15	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2860.0
2.5°	2856.2
5°	2837.6
7.5°	2807.7
10°	2766.6
12.5°	2716.2
15°	2658.4
17.5°	2593.0
20°	2525.8
22.5°	2451.1
25°	2370.9
27.5°	2286.9
30°	2199.1
32.5°	2105.8
35°	2010.6
37.5°	1909.8
40°	1808.9
42.5°	1704.4
45°	1601.7
47.5°	1489.7
50°	1379.6
52.5°	1258.2
55°	1084.6
57.5°	819.5
60°	504.0
62.5°	259.5
65°	112.0
67.5°	48.5
70°	37.3
72.5°	35.5
75°	31.7
77.5°	28.0
80°	24.3
82.5°	20.5
85°	14.9
87.5°	7.5
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	20.45	21.88	20.82	22.19	22.51	20.45	21.88	20.82	22.19	22.51
	3H	20.35	21.61	20.73	21.94	22.30	20.35	21.61	20.73	21.94	22.30
	4H	20.30	21.47	20.70	21.82	22.20	20.30	21.47	20.70	21.82	22.20
	6H	20.24	21.31	20.66	21.68	22.08	20.24	21.31	20.66	21.68	22.08
	8H	20.21	21.23	20.64	21.62	22.02	20.21	21.23	20.64	21.62	22.02
	12H	20.18	21.16	20.62	21.54	21.97	20.18	21.16	20.62	21.54	21.97
4H	2H	20.30	21.47	20.71	21.82	22.20	20.30	21.47	20.71	21.82	22.20
	3H	20.22	21.16	20.63	21.56	21.96	20.22	21.16	20.63	21.56	21.96
	4H	20.16	20.99	20.59	21.41	21.85	20.16	20.99	20.59	21.41	21.85
	6H	20.11	20.83	20.57	21.28	21.74	20.11	20.83	20.57	21.28	21.74
	8H	20.07	20.75	20.54	21.20	21.67	20.07	20.75	20.54	21.20	21.67
	12H	20.05	20.65	20.53	21.13	21.60	20.05	20.65	20.53	21.13	21.60
8H	4H	20.04	20.72	20.51	21.16	21.63	20.04	20.72	20.51	21.16	21.63
	6H	19.98	20.54	20.48	21.03	21.51	19.98	20.54	20.48	21.03	21.51
	8H	19.94	20.45	20.46	20.96	21.46	19.94	20.45	20.46	20.96	21.46
	12H	19.93	20.38	20.44	20.88	21.45	19.93	20.38	20.44	20.88	21.45
12H	4H	20.00	20.60	20.48	21.08	21.55	20.00	20.60	20.48	21.08	21.55
	6H	19.92	20.43	20.44	20.94	21.43	19.92	20.43	20.44	20.94	21.43
	8H	19.91	20.36	20.42	20.86	21.43	19.91	20.36	20.42	20.86	21.43