

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: P866398

Luminaire Tested: PRLX-2002-M-940-75L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866398  
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-940-75L-G-U-S-X-X-GREY-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

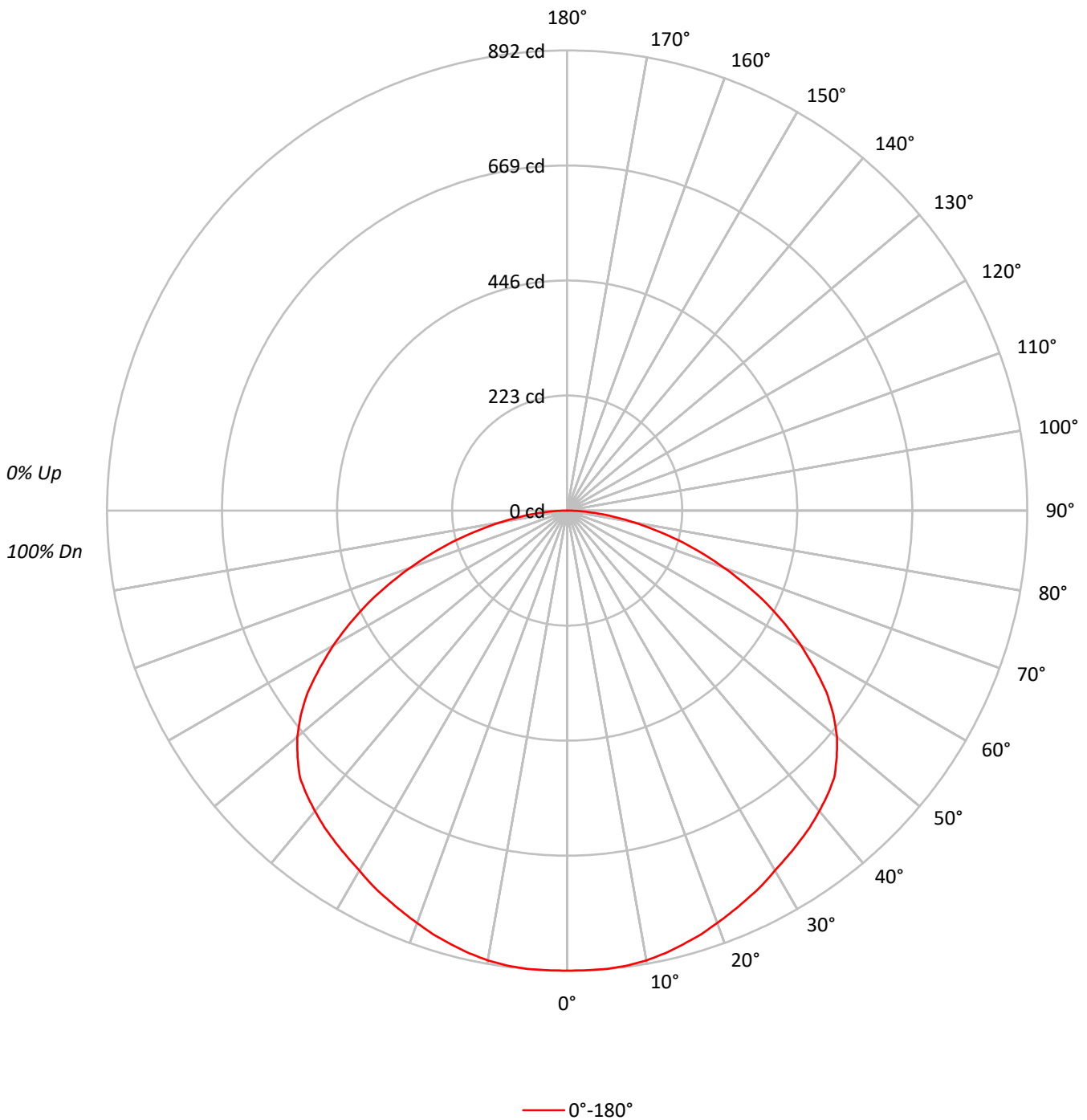
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3035.0 lumens  
Efficiency: N/A  
Efficacy: 43.5 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): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23

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

	0°
0°	7095
5°	7122
10°	7152
15°	7167
20°	7203
25°	7280
30°	7401
35°	7615
40°	7897
45°	8240
50°	8451
55°	8515
60°	8328
65°	8029
70°	7516
75°	6885
80°	6020
85°	4920

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 8515 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	2.8
10°-20°	246.0	8.1
20°-30°	383.1	12.6
30°-40°	491.8	16.2
40°-50°	562.6	18.5
50°-60°	545.0	18.0
60°-70°	420.7	13.9
70°-80°	237.1	7.8
80°-90°	63.6	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°	714.1	23.5
0°-40°	1205.9	39.7
0°-60°	2313.6	76.2
0°-90°	3035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	892	
5°	892	85
15°	870	246
25°	829	383
35°	784	492
45°	732	563
55°	614	545
65°	426	421
75°	224	237
85°	54	64
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	891.8
2.5°	891.8
5°	891.8
7.5°	889.6
10°	885.3
12.5°	878.8
15°	870.2
17.5°	861.6
20°	850.8
22.5°	840.1
25°	829.3
27.5°	818.5
30°	805.6
32.5°	794.8
35°	784.1
37.5°	773.3
40°	760.4
42.5°	747.4
45°	732.4
47.5°	708.7
50°	682.8
52.5°	650.5
55°	613.9
57.5°	568.7
60°	523.4
62.5°	476.0
65°	426.5
67.5°	374.8
70°	323.1
72.5°	273.6
75°	224.0
77.5°	174.5
80°	131.4
82.5°	90.5
85°	53.9
87.5°	23.7
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	19.93	21.63	20.29	21.95	22.26	19.93	21.63	20.29	21.95	22.26
	3H	21.74	23.29	22.12	23.62	23.97	21.74	23.29	22.12	23.62	23.97
	4H	22.41	23.87	22.80	24.21	24.59	22.41	23.87	22.80	24.21	24.59
	6H	22.87	24.23	23.28	24.59	24.98	22.87	24.23	23.28	24.59	24.98
	8H	23.02	24.31	23.44	24.70	25.10	23.02	24.31	23.44	24.70	25.10
	12H	23.11	24.35	23.54	24.74	25.16	23.11	24.35	23.54	24.74	25.16
4H	2H	20.59	22.04	20.98	22.39	22.76	20.59	22.04	20.98	22.39	22.76
	3H	22.61	23.84	23.02	24.24	24.64	22.61	23.84	23.02	24.24	24.64
	4H	23.40	24.51	23.83	24.93	25.36	23.40	24.51	23.83	24.93	25.36
	6H	23.99	24.96	24.44	25.40	25.86	23.99	24.96	24.44	25.40	25.86
	8H	24.18	25.09	24.64	25.53	26.00	24.18	25.09	24.64	25.53	26.00
	12H	24.32	25.14	24.80	25.61	26.08	24.32	25.14	24.80	25.61	26.08
8H	4H	23.71	24.63	24.17	25.07	25.53	23.71	24.63	24.17	25.07	25.53
	6H	24.42	25.18	24.91	25.66	26.14	24.42	25.18	24.91	25.66	26.14
	8H	24.68	25.36	25.18	25.86	26.35	24.68	25.36	25.18	25.86	26.35
	12H	24.88	25.48	25.38	25.97	26.53	24.88	25.48	25.38	25.97	26.53
12H	4H	23.75	24.57	24.23	25.04	25.51	23.75	24.57	24.23	25.04	25.51
	6H	24.47	25.16	24.98	25.66	26.14	24.47	25.16	24.98	25.66	26.14
	8H	24.79	25.39	25.29	25.88	26.44	24.79	25.39	25.29	25.88	26.44