

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: P866206

Luminaire Tested: PRLX-2002-M-927-75L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866206  
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-927-75L-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 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

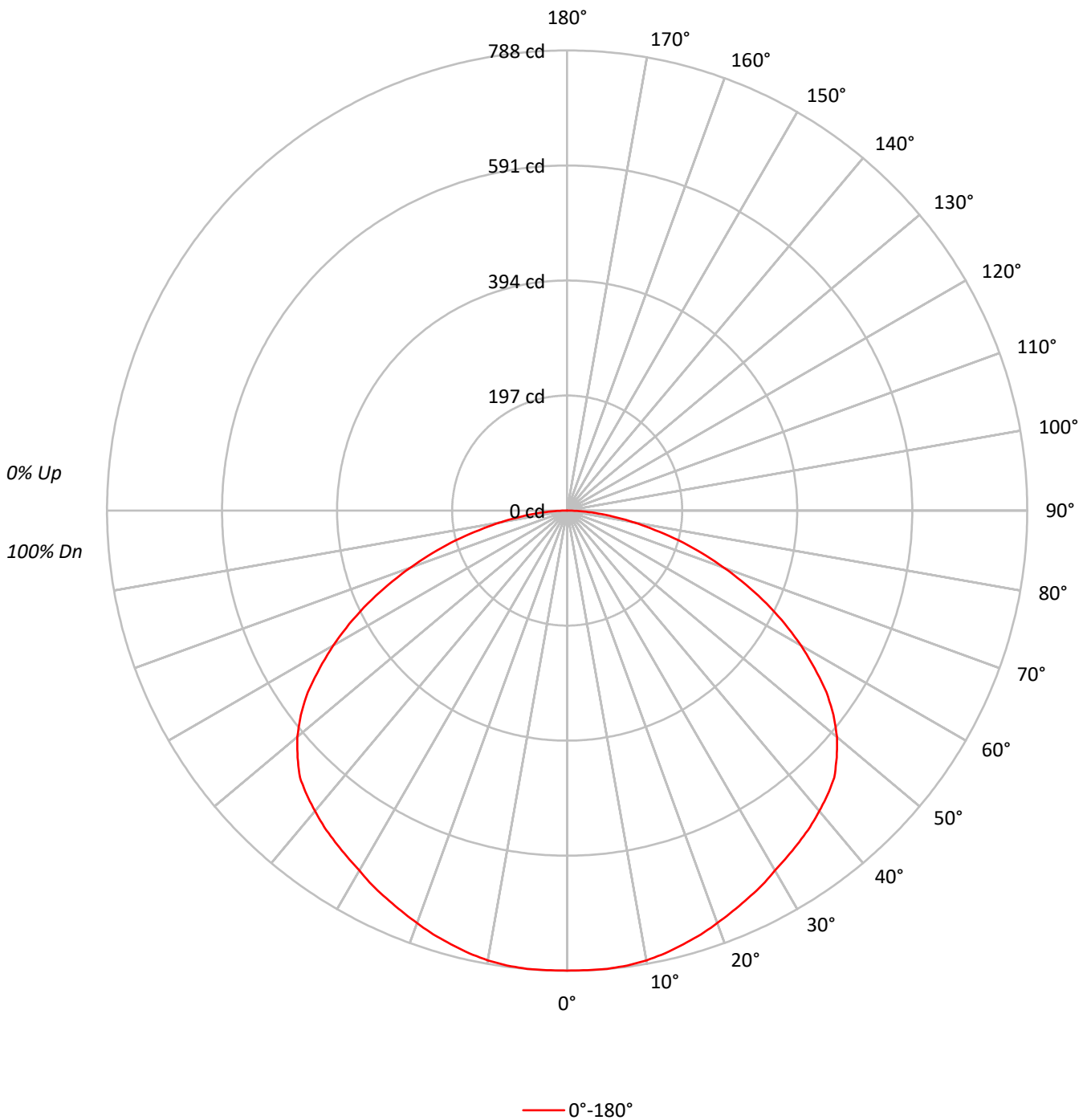
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2681.2 lumens  
Efficiency: N/A  
Efficacy: 38.5 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	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°	6268
5°	6291
10°	6318
15°	6332
20°	6364
25°	6431
30°	6538
35°	6728
40°	6976
45°	7279
50°	7466
55°	7522
60°	7357
65°	7093
70°	6639
75°	6083
80°	5319
85°	4345

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 7522 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	2.8
10°-20°	217.4	8.1
20°-30°	338.5	12.6
30°-40°	434.5	16.2
40°-50°	497.0	18.5
50°-60°	481.5	18.0
60°-70°	371.7	13.9
70°-80°	209.5	7.8
80°-90°	56.2	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°	630.8	23.5
0°-40°	1065.4	39.7
0°-60°	2043.9	76.2
0°-90°	2681.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	788	
5°	788	75
15°	769	217
25°	733	338
35°	693	435
45°	647	497
55°	542	481
65°	377	372
75°	198	209
85°	48	56
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	787.8
2.5°	787.8
5°	787.8
7.5°	785.9
10°	782.1
12.5°	776.4
15°	768.8
17.5°	761.2
20°	751.7
22.5°	742.2
25°	732.6
27.5°	723.1
30°	711.7
32.5°	702.2
35°	692.7
37.5°	683.2
40°	671.7
42.5°	660.3
45°	647.0
47.5°	626.1
50°	603.2
52.5°	574.7
55°	542.3
57.5°	502.4
60°	462.4
62.5°	420.6
65°	376.8
67.5°	331.1
70°	285.4
72.5°	241.7
75°	197.9
77.5°	154.1
80°	116.1
82.5°	79.9
85°	47.6
87.5°	20.9
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	19.50	21.20	19.86	21.51	21.83	19.50	21.20	19.86	21.51	21.83
	3H	21.31	22.86	21.69	23.18	23.54	21.31	22.86	21.69	23.18	23.54
	4H	21.98	23.43	22.37	23.78	24.16	21.98	23.43	22.37	23.78	24.16
	6H	22.44	23.80	22.85	24.16	24.55	22.44	23.80	22.85	24.16	24.55
	8H	22.59	23.88	23.01	24.27	24.67	22.59	23.88	23.01	24.27	24.67
	12H	22.68	23.92	23.11	24.30	24.73	22.68	23.92	23.11	24.30	24.73
4H	2H	20.16	21.61	20.55	21.96	22.33	20.16	21.61	20.55	21.96	22.33
	3H	22.18	23.41	22.59	23.81	24.21	22.18	23.41	22.59	23.81	24.21
	4H	22.97	24.08	23.40	24.49	24.93	22.97	24.08	23.40	24.49	24.93
	6H	23.56	24.53	24.01	24.97	25.42	23.56	24.53	24.01	24.97	25.42
	8H	23.75	24.66	24.21	25.10	25.57	23.75	24.66	24.21	25.10	25.57
	12H	23.89	24.71	24.37	25.18	25.65	23.89	24.71	24.37	25.18	25.65
8H	4H	23.28	24.19	23.74	24.64	25.10	23.28	24.19	23.74	24.64	25.10
	6H	23.99	24.75	24.48	25.23	25.71	23.99	24.75	24.48	25.23	25.71
	8H	24.25	24.93	24.75	25.43	25.92	24.25	24.93	24.75	25.43	25.92
	12H	24.45	25.05	24.95	25.54	26.10	24.45	25.05	24.95	25.54	26.10
12H	4H	23.32	24.14	23.80	24.61	25.08	23.32	24.14	23.80	24.61	25.08
	6H	24.04	24.72	24.55	25.23	25.71	24.04	24.72	24.55	25.23	25.71
	8H	24.36	24.96	24.86	25.45	26.01	24.36	24.96	24.86	25.45	26.01