

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: P866198

Luminaire Tested: PRLX-2002-M-927-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866198  
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: Pentalux  
Catalog Number: PRLX-2002-M-927-65L-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 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

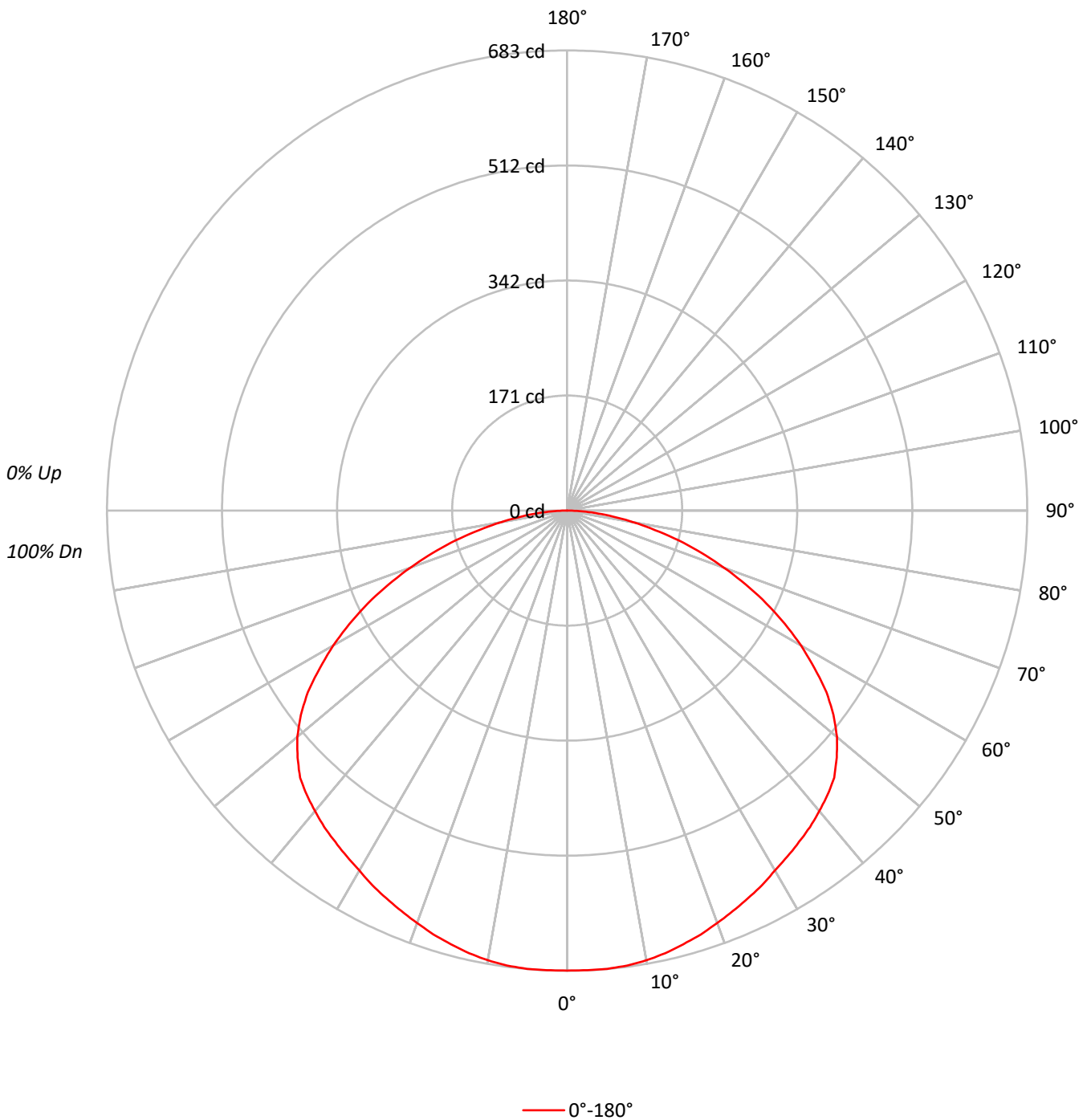
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2323.7 lumens  
Efficiency: N/A  
Efficacy: 39.7 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): 58.6  
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°	5432
5°	5453
10°	5476
15°	5488
20°	5515
25°	5574
30°	5666
35°	5830
40°	6046
45°	6309
50°	6471
55°	6519
60°	6377
65°	6146
70°	5755
75°	5272
80°	4609
85°	3761

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 6519 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	2.8
10°-20°	188.4	8.1
20°-30°	293.3	12.6
30°-40°	376.6	16.2
40°-50°	430.8	18.5
50°-60°	417.3	18.0
60°-70°	322.1	13.9
70°-80°	181.5	7.8
80°-90°	48.7	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°	546.7	23.5
0°-40°	923.3	39.7
0°-60°	1771.4	76.2
0°-90°	2323.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	683	
5°	683	65
15°	666	188
25°	635	293
35°	600	377
45°	561	431
55°	470	417
65°	326	322
75°	172	182
85°	41	49
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	682.8
2.5°	682.8
5°	682.8
7.5°	681.1
10°	677.8
12.5°	672.9
15°	666.3
17.5°	659.7
20°	651.4
22.5°	643.2
25°	635.0
27.5°	626.7
30°	616.8
32.5°	608.6
35°	600.3
37.5°	592.1
40°	582.2
42.5°	572.3
45°	560.7
47.5°	542.6
50°	522.8
52.5°	498.1
55°	470.0
57.5°	435.4
60°	400.8
62.5°	364.5
65°	326.5
67.5°	287.0
70°	247.4
72.5°	209.5
75°	171.5
77.5°	133.6
80°	100.6
82.5°	69.3
85°	41.2
87.5°	18.1
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	19.00	20.70	19.36	21.02	21.33	19.00	20.70	19.36	21.02	21.33
	3H	20.82	22.36	21.19	22.69	23.05	20.82	22.36	21.19	22.69	23.05
	4H	21.48	22.94	21.88	23.28	23.66	21.48	22.94	21.88	23.28	23.66
	6H	21.95	23.30	22.36	23.66	24.05	21.95	23.30	22.36	23.66	24.05
	8H	22.09	23.39	22.51	23.77	24.17	22.09	23.39	22.51	23.77	24.17
	12H	22.19	23.43	22.61	23.81	24.24	22.19	23.43	22.61	23.81	24.24
4H	2H	19.66	21.12	20.06	21.46	21.84	19.66	21.12	20.06	21.46	21.84
	3H	21.69	22.91	22.10	23.31	23.71	21.69	22.91	22.10	23.31	23.71
	4H	22.47	23.59	22.90	24.00	24.43	22.47	23.59	22.90	24.00	24.43
	6H	23.06	24.04	23.51	24.48	24.93	23.06	24.04	23.51	24.48	24.93
	8H	23.25	24.17	23.71	24.61	25.07	23.25	24.17	23.71	24.61	25.07
	12H	23.39	24.21	23.87	24.69	25.15	23.39	24.21	23.87	24.69	25.15
8H	4H	22.79	23.70	23.24	24.14	24.60	22.79	23.70	23.24	24.14	24.60
	6H	23.49	24.25	23.98	24.74	25.21	23.49	24.25	23.98	24.74	25.21
	8H	23.75	24.43	24.26	24.94	25.42	23.75	24.43	24.26	24.94	25.42
	12H	23.95	24.56	24.46	25.05	25.60	23.95	24.56	24.46	25.05	25.60
12H	4H	22.82	23.64	23.30	24.12	24.58	22.82	23.64	23.30	24.12	24.58
	6H	23.54	24.23	24.05	24.73	25.22	23.54	24.23	24.05	24.73	25.22
	8H	23.86	24.46	24.36	24.95	25.51	23.86	24.46	24.36	24.95	25.51