

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: P865855

Luminaire Tested: PRLX-2004-S-940-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-940-05L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

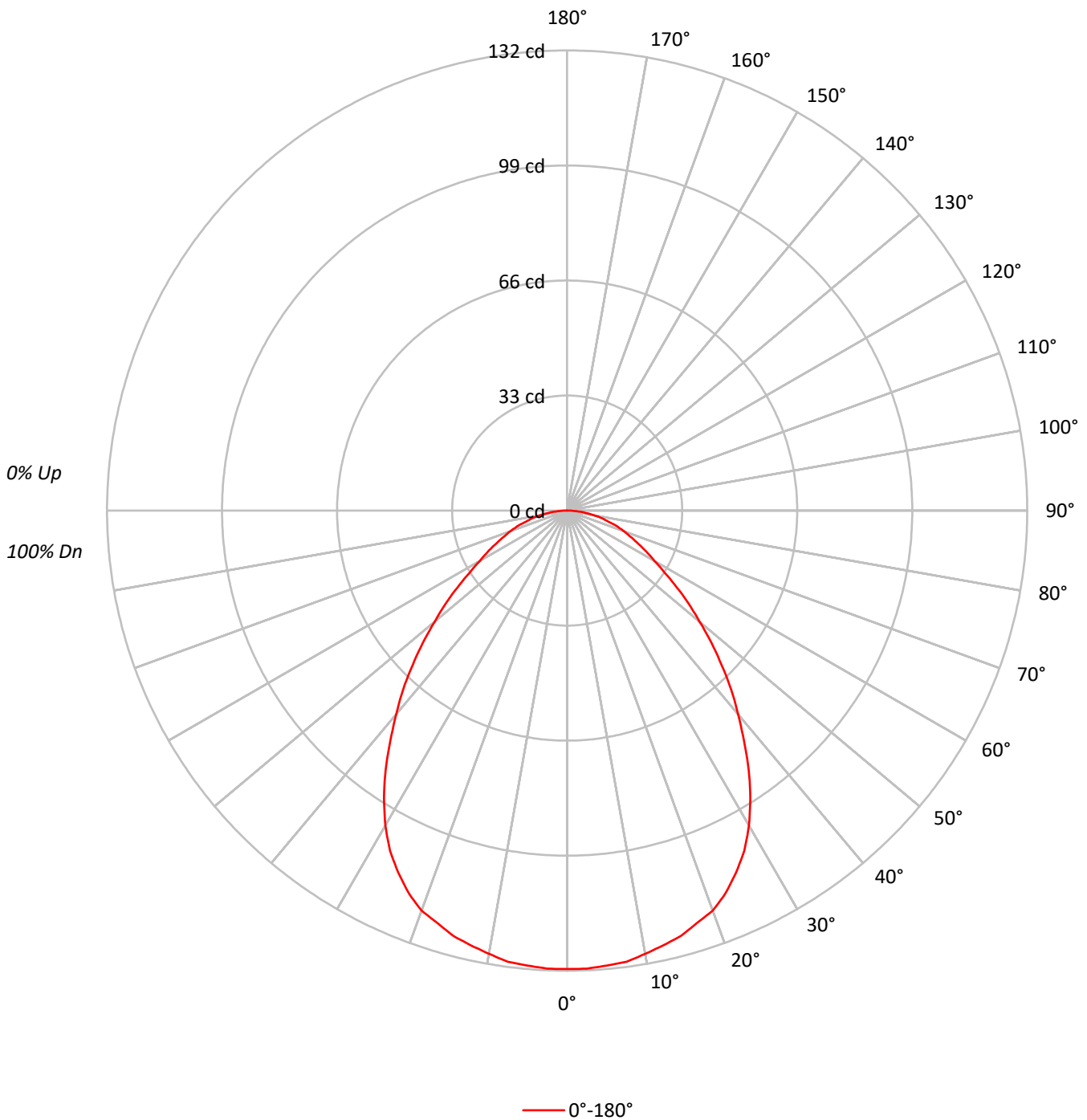
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 280.0 lumens  
Efficiency: N/A  
Efficacy: 45.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

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

	0°
0°	2145
5°	2145
10°	2138
15°	2133
20°	2119
25°	2062
30°	1964
35°	1808
40°	1625
45°	1446
50°	1259
55°	1092
60°	946
65°	868
70°	825
75°	769
80°	751
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1446 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.5	4.4
10°-20°	35.6	12.7
20°-30°	52.6	18.8
30°-40°	56.5	20.2
40°-50°	48.4	17.3
50°-60°	34.6	12.3
60°-70°	22.5	8.0
70°-80°	13.2	4.7
80°-90°	4.1	1.5
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°	100.6	35.9
0°-40°	157.2	56.1
0°-60°	240.1	85.8
0°-90°	280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	132	
5°	131	12
15°	126	36
25°	115	53
35°	91	57
45°	63	48
55°	38	35
65°	22	23
75°	12	13
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	131.5
2.5°	131.5
5°	131.0
7.5°	130.5
10°	129.1
12.5°	127.7
15°	126.3
17.5°	124.0
20°	122.1
22.5°	118.8
25°	114.6
27.5°	110.0
30°	104.3
32.5°	97.8
35°	90.8
37.5°	83.3
40°	76.3
42.5°	69.7
45°	62.7
47.5°	56.1
50°	49.6
52.5°	44.0
55°	38.4
57.5°	33.2
60°	29.0
62.5°	25.7
65°	22.5
67.5°	19.7
70°	17.3
72.5°	15.0
75°	12.2
77.5°	10.3
80°	8.0
82.5°	5.6
85°	3.7
87.5°	1.9
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	11.21	12.70	11.57	13.01	13.33	11.21	12.70	11.57	13.01	13.33
	3H	12.75	14.08	13.12	14.41	14.77	12.75	14.08	13.12	14.41	14.77
	4H	13.37	14.62	13.77	14.97	15.35	13.37	14.62	13.77	14.97	15.35
	6H	13.89	15.05	14.30	15.41	15.81	13.89	15.05	14.30	15.41	15.81
	8H	14.06	15.16	14.48	15.55	15.95	14.06	15.16	14.48	15.55	15.95
	12H	14.18	15.24	14.61	15.62	16.05	14.18	15.24	14.61	15.62	16.05
4H	2H	11.71	12.97	12.11	13.31	13.69	11.71	12.97	12.11	13.31	13.69
	3H	13.50	14.55	13.91	14.95	15.35	13.50	14.55	13.91	14.95	15.35
	4H	14.26	15.20	14.69	15.61	16.05	14.26	15.20	14.69	15.61	16.05
	6H	14.92	15.74	15.38	16.18	16.64	14.92	15.74	15.38	16.18	16.64
	8H	15.14	15.91	15.61	16.35	16.82	15.14	15.91	15.61	16.35	16.82
	12H	15.32	16.00	15.80	16.48	16.95	15.32	16.00	15.80	16.48	16.95
8H	4H	14.55	15.31	15.01	15.76	16.23	14.55	15.31	15.01	15.76	16.23
	6H	15.35	15.98	15.85	16.47	16.95	15.35	15.98	15.85	16.47	16.95
	8H	15.65	16.22	16.17	16.73	17.22	15.65	16.22	16.17	16.73	17.22
	12H	15.91	16.42	16.42	16.91	17.47	15.91	16.42	16.42	16.91	17.47
12H	4H	14.58	15.26	15.06	15.74	16.21	14.58	15.26	15.06	15.74	16.21
	6H	15.41	15.98	15.92	16.49	16.98	15.41	15.98	15.92	16.49	16.98
	8H	15.77	16.27	16.28	16.77	17.33	15.77	16.27	16.28	16.77	17.33