

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: P865943

Luminaire Tested: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

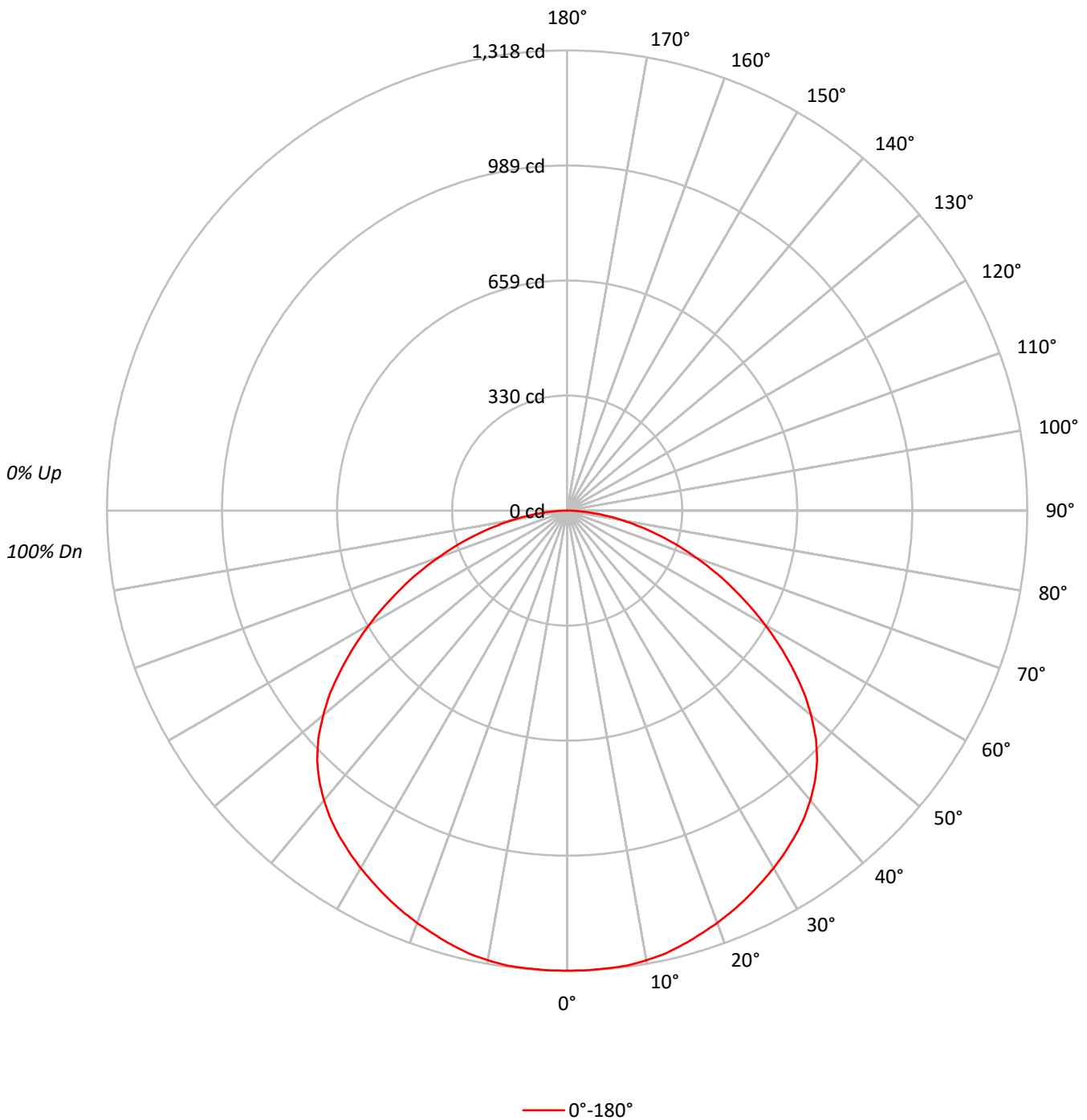
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4131.1 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' 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: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P865943

CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865943

CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

**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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	11182
5°	11211
10°	11269
15°	11301
20°	11349
25°	11443
30°	11587
35°	11789
40°	12003
45°	12152
50°	12040
55°	11663
60°	11112
65°	10465
70°	9699
75°	8921
80°	7897
85°	6426

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12152 cd/sqm

TEST NUMBER: P865943

CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	3.0
10°-20°	363.5	8.8
20°-30°	564.2	13.7
30°-40°	712.6	17.3
40°-50°	778.0	18.8
50°-60°	703.9	17.0
60°-70°	516.5	12.5
70°-80°	288.5	7.0
80°-90°	78.5	1.9
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°	1053.1	25.5
0°-40°	1765.7	42.7
0°-60°	3247.6	78.6
0°-90°	4131.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4131.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1318	
5°	1316	125
15°	1286	363
25°	1222	564
35°	1138	713
45°	1013	778
55°	788	704
65°	521	516
75°	272	289
85°	66	79
90°	0	

TEST NUMBER: P865943

CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1317.7
2.5°	1317.7
5°	1316.1
7.5°	1314.4
10°	1307.8
12.5°	1299.6
15°	1286.4
17.5°	1271.6
20°	1256.7
22.5°	1240.2
25°	1222.1
27.5°	1202.3
30°	1182.5
32.5°	1161.1
35°	1138.0
37.5°	1113.2
40°	1083.5
42.5°	1050.6
45°	1012.6
47.5°	966.5
50°	912.0
52.5°	854.3
55°	788.3
57.5°	722.4
60°	654.7
62.5°	587.1
65°	521.2
67.5°	456.8
70°	390.9
72.5°	331.5
75°	272.1
77.5°	214.4
80°	161.6
82.5°	112.1
85°	66.0
87.5°	29.7
90°	0.0



TEST NUMBER: P865943  
 CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-WHHR-X

**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	20.79	22.45	21.15	22.76	23.08	20.79	22.45	21.15	22.76	23.08
	3H	22.48	23.98	22.85	24.31	24.67	22.48	23.98	22.85	24.31	24.67
	4H	23.10	24.52	23.50	24.87	25.24	23.10	24.52	23.50	24.87	25.24
	6H	23.56	24.87	23.97	25.24	25.63	23.56	24.87	23.97	25.24	25.63
	8H	23.70	24.96	24.13	25.35	25.75	23.70	24.96	24.13	25.35	25.75
	12H	23.79	25.00	24.22	25.38	25.81	23.79	25.00	24.22	25.38	25.81
4H	2H	21.39	22.81	21.79	23.15	23.53	21.39	22.81	21.79	23.15	23.53
	3H	23.30	24.49	23.71	24.89	25.29	23.30	24.49	23.71	24.89	25.29
	4H	24.06	25.13	24.49	25.54	25.98	24.06	25.13	24.49	25.54	25.98
	6H	24.64	25.58	25.09	26.02	26.47	24.64	25.58	25.09	26.02	26.47
	8H	24.83	25.71	25.28	26.15	26.61	24.83	25.71	25.28	26.15	26.61
	12H	24.96	25.75	25.44	26.23	26.69	24.96	25.75	25.44	26.23	26.69
8H	4H	24.35	25.23	24.81	25.67	26.14	24.35	25.23	24.81	25.67	26.14
	6H	25.05	25.78	25.54	26.27	26.74	25.05	25.78	25.54	26.27	26.74
	8H	25.31	25.97	25.81	26.47	26.96	25.31	25.97	25.81	26.47	26.96
	12H	25.51	26.09	26.01	26.58	27.14	25.51	26.09	26.01	26.58	27.14
12H	4H	24.38	25.18	24.86	25.65	26.12	24.38	25.18	24.86	25.65	26.12
	6H	25.10	25.76	25.61	26.26	26.75	25.10	25.76	25.61	26.26	26.75
	8H	25.41	26.00	25.92	26.49	27.05	25.41	26.00	25.92	26.49	27.05