

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: P866439

Luminaire Tested: PRLX-2004-M-927-45L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-45L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

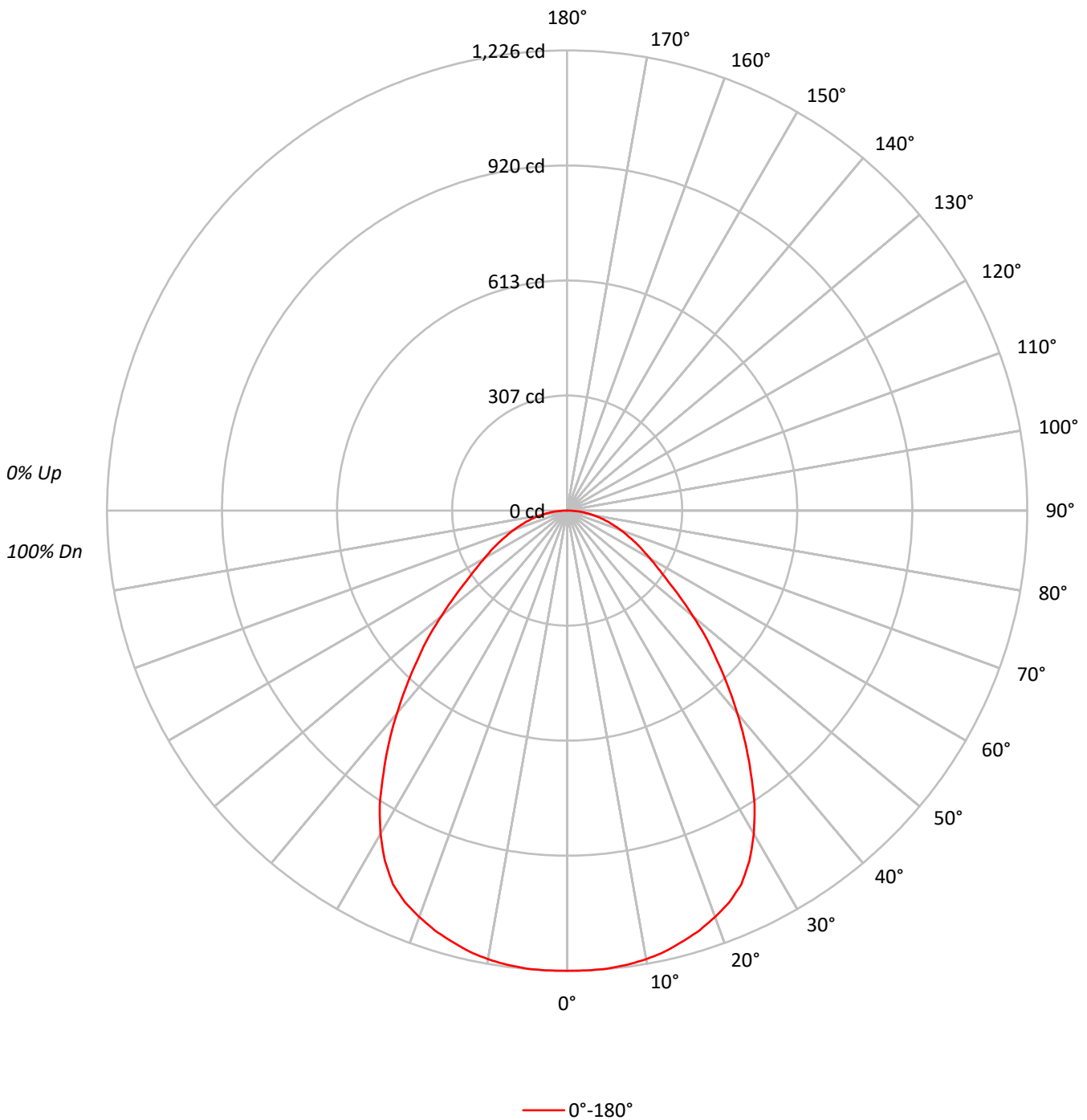
Lumens per Lamp: N/A
Luminaire Lumens: 2575.4 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): 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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9756
5°	9784
10°	9805
15°	9790
20°	9754
25°	9642
30°	9136
35°	8284
40°	7328
45°	6359
50°	5412
55°	4545
60°	4051
65°	3761
70°	3533
75°	3369
80°	3244
85°	3131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	4.5
10°-20°	335.6	13.0
20°-30°	501.5	19.5
30°-40°	532.3	20.7
40°-50°	437.2	17.0
50°-60°	299.1	11.6
60°-70°	198.8	7.7
70°-80°	116.4	4.5
80°-90°	37.9	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°	953.6	37.0
0°-40°	1485.9	57.7
0°-60°	2222.2	86.3
0°-90°	2575.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1226	
5°	1225	117
15°	1189	336
25°	1098	502
35°	853	532
45°	565	437
55°	328	299
65°	200	199
75°	110	116
85°	34	38
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1226.3
2.5°	1226.3
5°	1225.1
7.5°	1220.6
10°	1213.7
12.5°	1203.4
15°	1188.6
17.5°	1172.6
20°	1152.1
22.5°	1129.2
25°	1098.4
27.5°	1051.6
30°	994.5
32.5°	929.4
35°	852.9
37.5°	779.8
40°	705.6
42.5°	633.7
45°	565.2
47.5°	502.4
50°	437.3
52.5°	379.1
55°	327.7
57.5°	287.7
60°	254.6
62.5°	226.1
65°	199.8
67.5°	174.7
70°	151.9
72.5°	130.2
75°	109.6
77.5°	90.2
80°	70.8
82.5°	52.5
85°	34.3
87.5°	17.1
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	16.04	17.51	16.41	17.83	18.14	16.04	17.51	16.41	17.83	18.14
	3H	17.62	18.95	18.00	19.27	19.64	17.62	18.95	18.00	19.27	19.64
	4H	18.26	19.50	18.66	19.85	20.23	18.26	19.50	18.66	19.85	20.23
	6H	18.79	19.93	19.20	20.30	20.69	18.79	19.93	19.20	20.30	20.69
	8H	18.98	20.07	19.40	20.46	20.86	18.98	20.07	19.40	20.46	20.86
	12H	19.12	20.16	19.55	20.54	20.97	19.12	20.16	19.55	20.54	20.97
4H	2H	16.57	17.81	16.97	18.16	18.53	16.57	17.81	16.97	18.16	18.53
	3H	18.39	19.42	18.80	19.82	20.22	18.39	19.42	18.80	19.82	20.22
	4H	19.17	20.09	19.60	20.51	20.95	19.17	20.09	19.60	20.51	20.95
	6H	19.83	20.64	20.29	21.08	21.54	19.83	20.64	20.29	21.08	21.54
	8H	20.08	20.83	20.55	21.28	21.75	20.08	20.83	20.55	21.28	21.75
	12H	20.28	20.95	20.76	21.43	21.90	20.28	20.95	20.76	21.43	21.90
8H	4H	19.46	20.21	19.93	20.66	21.13	19.46	20.21	19.93	20.66	21.13
	6H	20.27	20.89	20.76	21.38	21.86	20.27	20.89	20.76	21.38	21.86
	8H	20.60	21.16	21.12	21.67	22.16	20.60	21.16	21.12	21.67	22.16
	12H	20.89	21.39	21.40	21.88	22.45	20.89	21.39	21.40	21.88	22.45
12H	4H	19.49	20.16	19.98	20.64	21.12	19.49	20.16	19.98	20.64	21.12
	6H	20.33	20.89	20.85	21.40	21.89	20.33	20.89	20.85	21.40	21.89
	8H	20.73	21.23	21.24	21.72	22.29	20.73	21.23	21.24	21.72	22.29