

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: P866455

Luminaire Tested: PRLX-2004-M-927-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866455
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: Pentalux
Catalog Number: PRLX-2004-M-927-65L-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 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

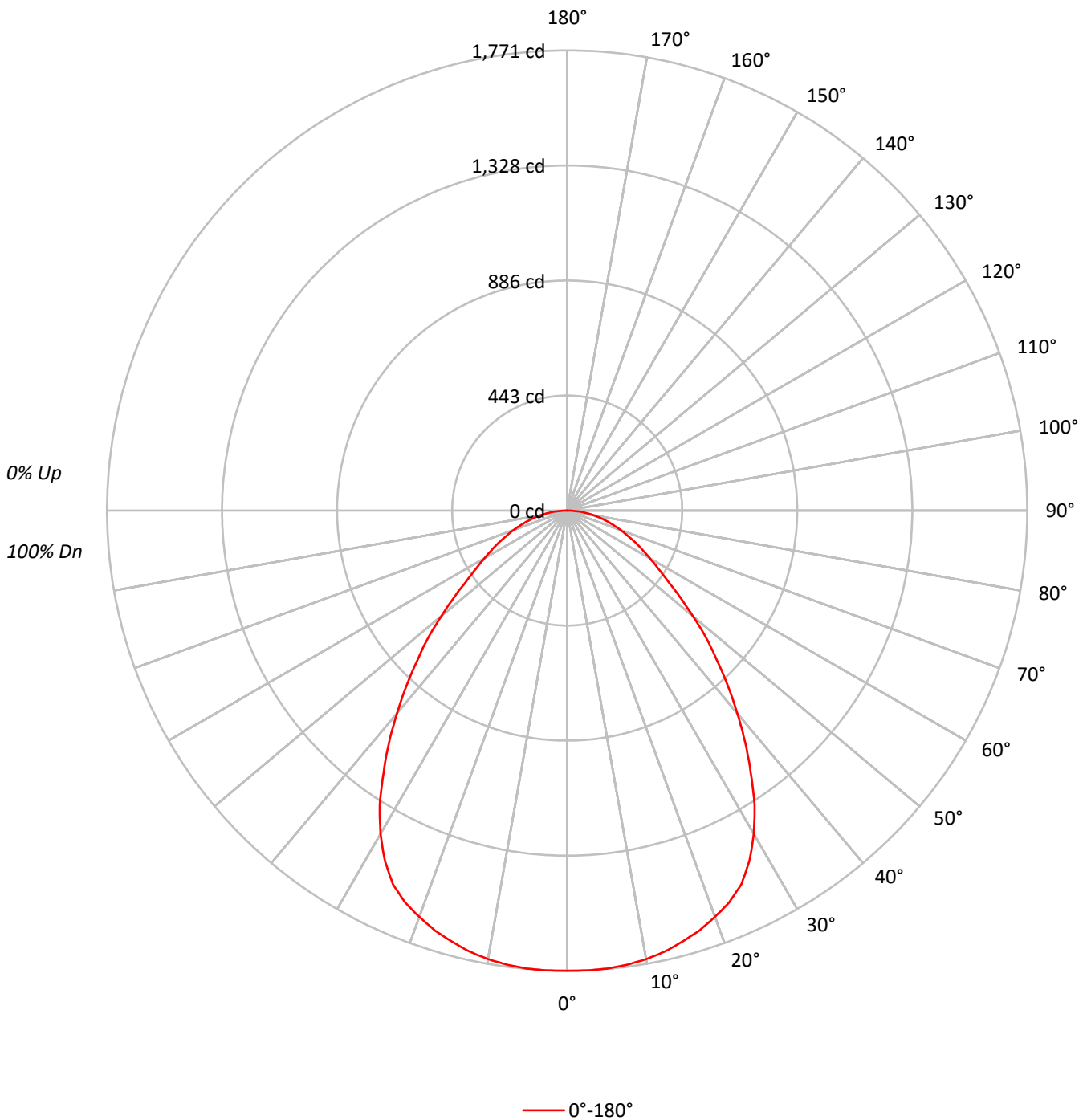
Lumens per Lamp: N/A
Luminaire Lumens: 3720.0 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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

TEST NUMBER: P866455

CATALOG NUMBER: PRLX-2004-M-927-65L-G-U-S-X-X-WHHR-X

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	61	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°	14092
5°	14132
10°	14162
15°	14141
20°	14089
25°	13928
30°	13196
35°	11965
40°	10585
45°	9185
50°	7819
55°	6565
60°	5852
65°	5433
70°	5101
75°	4866
80°	4687
85°	4518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	4.5
10°-20°	484.7	13.0
20°-30°	724.4	19.5
30°-40°	768.9	20.7
40°-50°	631.5	17.0
50°-60°	432.0	11.6
60°-70°	287.2	7.7
70°-80°	168.1	4.5
80°-90°	54.8	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°	1377.5	37.0
0°-40°	2146.4	57.7
0°-60°	3209.9	86.3
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1771	
5°	1770	168
15°	1717	485
25°	1587	724
35°	1232	769
45°	816	632
55°	473	432
65°	289	287
75°	158	168
85°	50	55
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1771.3
2.5°	1771.3
5°	1769.6
7.5°	1763.0
10°	1753.1
12.5°	1738.3
15°	1716.9
17.5°	1693.8
20°	1664.1
22.5°	1631.1
25°	1586.6
27.5°	1519.0
30°	1436.5
32.5°	1342.5
35°	1232.0
37.5°	1126.4
40°	1019.2
42.5°	915.3
45°	816.4
47.5°	725.7
50°	631.7
52.5°	547.5
55°	473.3
57.5°	415.6
60°	367.8
62.5°	326.5
65°	288.6
67.5°	252.3
70°	219.3
72.5°	188.0
75°	158.3
77.5°	130.3
80°	102.3
82.5°	75.9
85°	49.5
87.5°	24.7
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	17.32	18.79	17.68	19.11	19.42	17.32	18.79	17.68	19.11	19.42
	3H	18.90	20.22	19.28	20.55	20.91	18.90	20.22	19.28	20.55	20.91
	4H	19.54	20.78	19.94	21.13	21.51	19.54	20.78	19.94	21.13	21.51
	6H	20.06	21.21	20.48	21.57	21.97	20.06	21.21	20.48	21.57	21.97
	8H	20.25	21.34	20.68	21.73	22.13	20.25	21.34	20.68	21.73	22.13
	12H	20.40	21.44	20.83	21.82	22.25	20.40	21.44	20.83	21.82	22.25
4H	2H	17.85	19.08	18.25	19.43	19.81	17.85	19.08	18.25	19.43	19.81
	3H	19.67	20.69	20.08	21.10	21.50	19.67	20.69	20.08	21.10	21.50
	4H	20.45	21.37	20.88	21.79	22.23	20.45	21.37	20.88	21.79	22.23
	6H	21.11	21.92	21.57	22.36	22.82	21.11	21.92	21.57	22.36	22.82
	8H	21.36	22.11	21.82	22.56	23.02	21.36	22.11	21.82	22.56	23.02
	12H	21.55	22.23	22.04	22.71	23.18	21.55	22.23	22.04	22.71	23.18
8H	4H	20.74	21.49	21.20	21.94	22.40	20.74	21.49	21.20	21.94	22.40
	6H	21.54	22.17	22.04	22.66	23.14	21.54	22.17	22.04	22.66	23.14
	8H	21.88	22.44	22.40	22.95	23.44	21.88	22.44	22.40	22.95	23.44
	12H	22.17	22.67	22.68	23.16	23.73	22.17	22.67	22.68	23.16	23.73
12H	4H	20.77	21.44	21.25	21.92	22.39	20.77	21.44	21.25	21.92	22.39
	6H	21.61	22.17	22.12	22.68	23.17	21.61	22.17	22.12	22.68	23.17
	8H	22.01	22.51	22.52	23.00	23.56	22.01	22.51	22.52	23.00	23.56