

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: P867235

Luminaire Tested: PRLX-2004-L-927-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-83L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

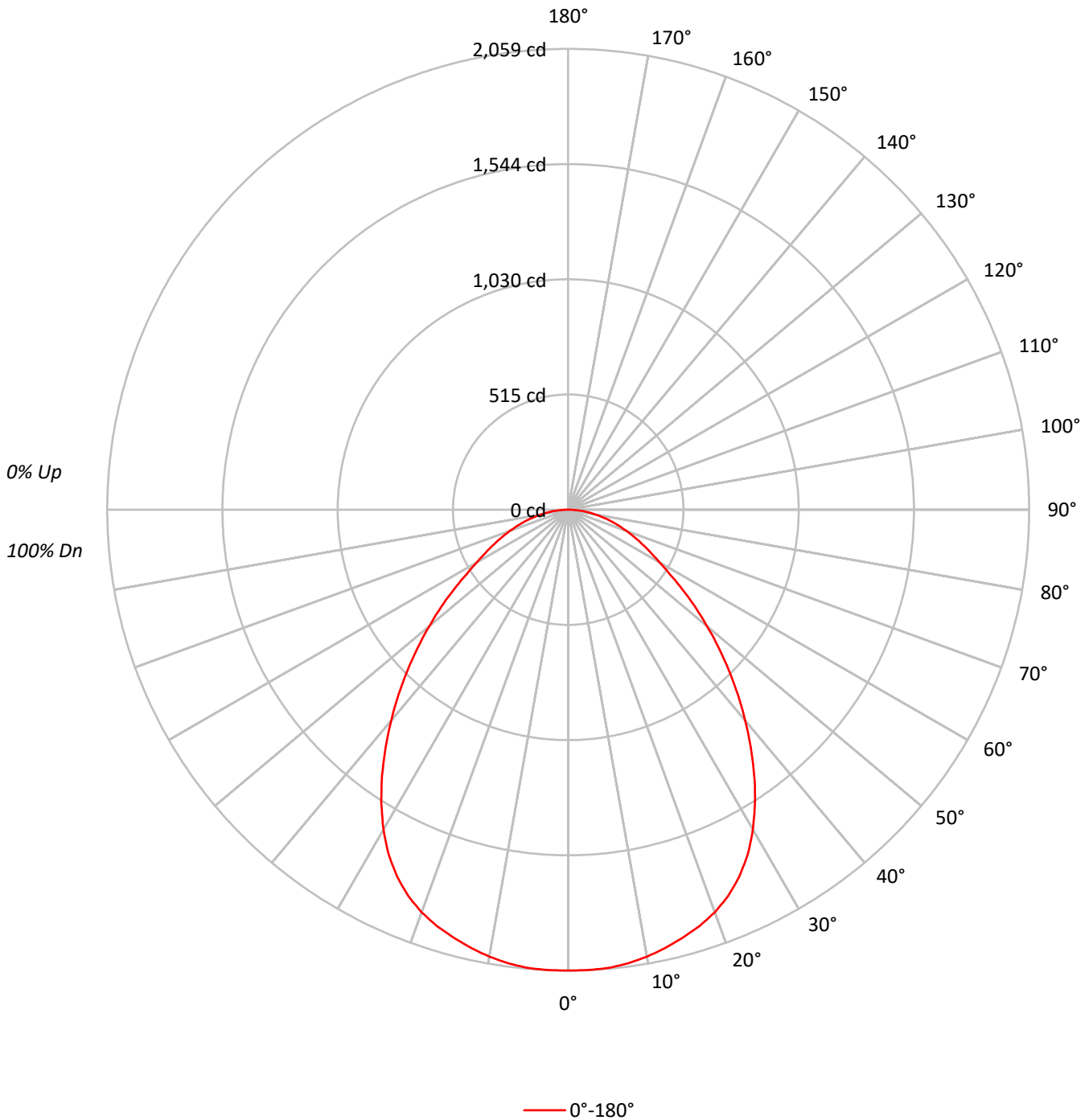
Lumens per Lamp: N/A
Luminaire Lumens: 4470.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10159
5°	10178
10°	10159
15°	10112
20°	10050
25°	9845
30°	9401
35°	8728
40°	7922
45°	7072
50°	6215
55°	5368
60°	4655
65°	4274
70°	3990
75°	3744
80°	3532
85°	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	4.4
10°-20°	558.6	12.5
20°-30°	829.0	18.5
30°-40°	902.9	20.2
40°-50°	782.8	17.5
50°-60°	562.6	12.6
60°-70°	364.9	8.2
70°-80°	208.8	4.7
80°-90°	65.5	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°	1582.9	35.4
0°-40°	2485.8	55.6
0°-60°	3831.2	85.7
0°-90°	4470.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4470.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2059	
5°	2055	195
15°	1980	559
25°	1808	829
35°	1449	903
45°	1014	783
55°	624	563
65°	366	365
75°	196	209
85°	59	65
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2059.1
2.5°	2059.1
5°	2055.1
7.5°	2044.4
10°	2027.7
12.5°	2005.0
15°	1979.6
17.5°	1950.2
20°	1914.1
22.5°	1868.0
25°	1808.5
27.5°	1736.4
30°	1650.2
32.5°	1553.3
35°	1449.1
37.5°	1339.5
40°	1230.0
42.5°	1121.7
45°	1013.5
47.5°	911.3
50°	809.7
52.5°	716.2
55°	624.0
57.5°	540.5
60°	471.7
62.5°	415.6
65°	366.1
67.5°	319.4
70°	276.6
72.5°	235.2
75°	196.4
77.5°	159.7
80°	124.3
82.5°	90.9
85°	58.8
87.5°	28.7
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	16.81	18.31	17.17	18.62	18.93	16.81	18.31	17.17	18.62	18.93
	3H	18.32	19.66	18.70	19.99	20.35	18.32	19.66	18.70	19.99	20.35
	4H	18.92	20.18	19.32	20.53	20.91	18.92	20.18	19.32	20.53	20.91
	6H	19.40	20.56	19.81	20.93	21.32	19.40	20.56	19.81	20.93	21.32
	8H	19.57	20.68	19.99	21.07	21.47	19.57	20.68	19.99	21.07	21.47
	12H	19.69	20.75	20.12	21.13	21.56	19.69	20.75	20.12	21.13	21.56
4H	2H	17.31	18.57	17.71	18.92	19.30	17.31	18.57	17.71	18.92	19.30
	3H	19.06	20.11	19.47	20.51	20.91	19.06	20.11	19.47	20.51	20.91
	4H	19.80	20.74	20.23	21.16	21.59	19.80	20.74	20.23	21.16	21.59
	6H	20.41	21.23	20.87	21.68	22.14	20.41	21.23	20.87	21.68	22.14
	8H	20.64	21.40	21.10	21.85	22.32	20.64	21.40	21.10	21.85	22.32
	12H	20.81	21.50	21.29	21.98	22.45	20.81	21.50	21.29	21.98	22.45
8H	4H	20.07	20.84	20.54	21.29	21.75	20.07	20.84	20.54	21.29	21.75
	6H	20.82	21.46	21.32	21.95	22.43	20.82	21.46	21.32	21.95	22.43
	8H	21.13	21.70	21.64	22.21	22.70	21.13	21.70	21.64	22.21	22.70
	12H	21.39	21.90	21.90	22.39	22.95	21.39	21.90	21.90	22.39	22.95
12H	4H	20.10	20.79	20.58	21.27	21.74	20.10	20.79	20.58	21.27	21.74
	6H	20.88	21.45	21.39	21.96	22.45	20.88	21.45	21.39	21.96	22.45
	8H	21.24	21.75	21.75	22.24	22.81	21.24	21.75	21.75	22.24	22.81