

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: P867179

Luminaire Tested: PRLX-2004-L-927-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867179
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-927-100L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

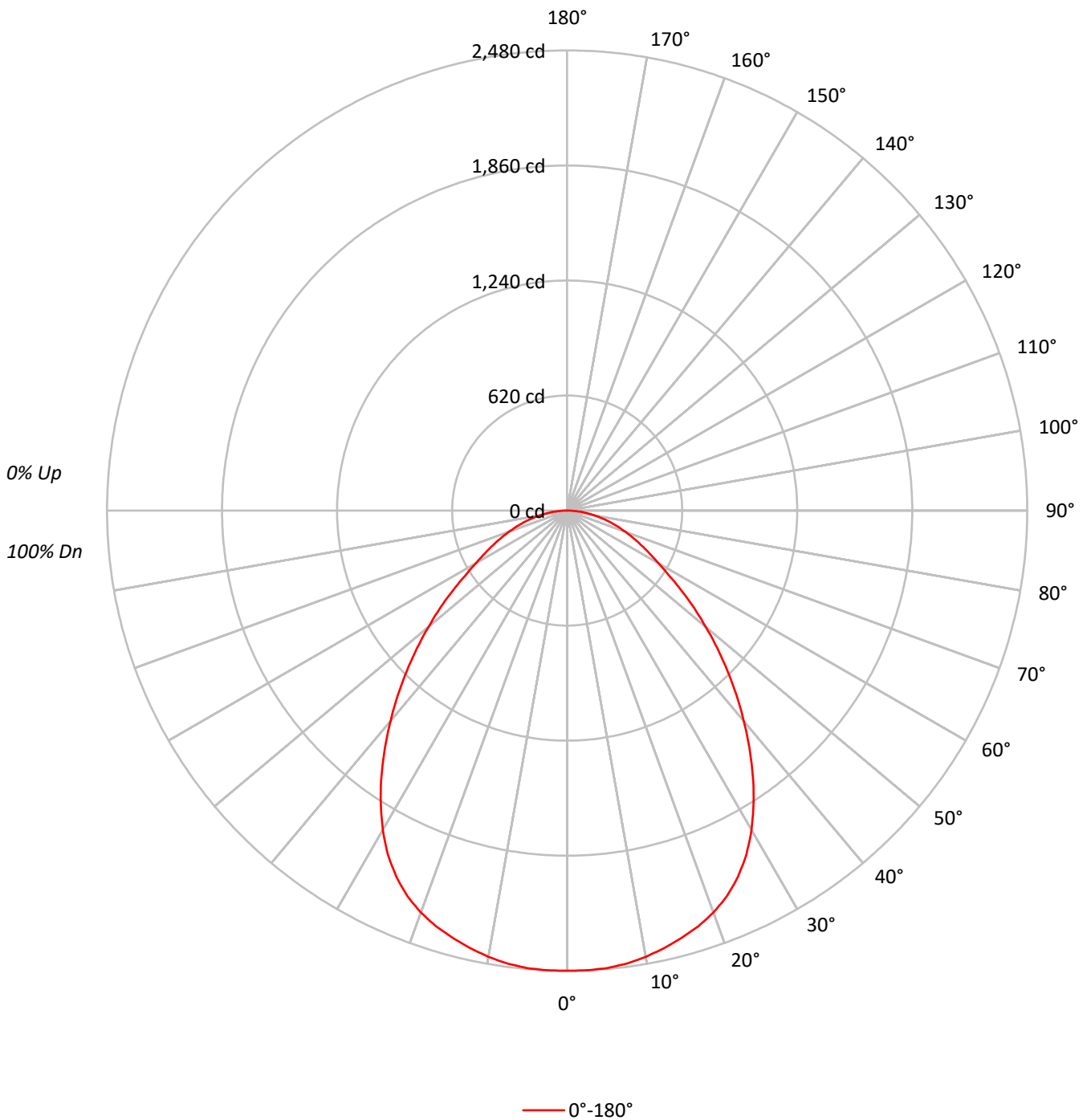
Lumens per Lamp: N/A
Luminaire Lumens: 5384.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	12235
5°	12258
10°	12235
15°	12178
20°	12104
25°	11858
30°	11323
35°	10512
40°	9541
45°	8517
50°	7485
55°	6464
60°	5606
65°	5148
70°	4805
75°	4510
80°	4253
85°	4008

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	4.4
10°-20°	672.8	12.5
20°-30°	998.5	18.5
30°-40°	1087.4	20.2
40°-50°	942.9	17.5
50°-60°	677.6	12.6
60°-70°	439.4	8.2
70°-80°	251.5	4.7
80°-90°	78.8	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°	1906.5	35.4
0°-40°	2993.9	55.6
0°-60°	4614.3	85.7
0°-90°	5384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5384.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2480	
5°	2475	235
15°	2384	673
25°	2178	998
35°	1745	1087
45°	1221	943
55°	752	678
65°	441	439
75°	237	251
85°	71	79
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2479.9
2.5°	2479.9
5°	2475.1
7.5°	2462.2
10°	2442.1
12.5°	2414.8
15°	2384.2
17.5°	2348.8
20°	2305.3
22.5°	2249.8
25°	2178.2
27.5°	2091.3
30°	1987.5
32.5°	1870.8
35°	1745.3
37.5°	1613.3
40°	1481.4
42.5°	1351.0
45°	1220.7
47.5°	1097.6
50°	975.2
52.5°	862.6
55°	751.5
57.5°	651.0
60°	568.1
62.5°	500.5
65°	441.0
67.5°	384.6
70°	333.1
72.5°	283.2
75°	236.6
77.5°	192.3
80°	149.7
82.5°	109.4
85°	70.8
87.5°	34.6
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	17.45	18.95	17.82	19.27	19.58	17.45	18.95	17.82	19.27	19.58
	3H	18.97	20.31	19.34	20.64	21.00	18.97	20.31	19.34	20.64	21.00
	4H	19.57	20.83	19.97	21.18	21.55	19.57	20.83	19.97	21.18	21.55
	6H	20.04	21.21	20.46	21.58	21.97	20.04	21.21	20.46	21.58	21.97
	8H	20.21	21.32	20.64	21.71	22.11	20.21	21.32	20.64	21.71	22.11
	12H	20.34	21.40	20.77	21.78	22.21	20.34	21.40	20.77	21.78	22.21
4H	2H	17.95	19.22	18.35	19.57	19.94	17.95	19.22	18.35	19.57	19.94
	3H	19.71	20.75	20.12	21.15	21.56	19.71	20.75	20.12	21.15	21.56
	4H	20.44	21.39	20.88	21.80	22.24	20.44	21.39	20.88	21.80	22.24
	6H	21.06	21.88	21.52	22.32	22.78	21.06	21.88	21.52	22.32	22.78
	8H	21.28	22.05	21.75	22.49	22.96	21.28	22.05	21.75	22.49	22.96
	12H	21.46	22.14	21.94	22.62	23.09	21.46	22.14	21.94	22.62	23.09
8H	4H	20.72	21.49	21.18	21.93	22.40	20.72	21.49	21.18	21.93	22.40
	6H	21.47	22.10	21.96	22.59	23.07	21.47	22.10	21.96	22.59	23.07
	8H	21.77	22.34	22.29	22.85	23.34	21.77	22.34	22.29	22.85	23.34
	12H	22.03	22.54	22.54	23.03	23.60	22.03	22.54	22.54	23.03	23.60
12H	4H	20.75	21.43	21.23	21.91	22.38	20.75	21.43	21.23	21.91	22.38
	6H	21.52	22.10	22.04	22.61	23.09	21.52	22.10	22.04	22.61	23.09
	8H	21.89	22.40	22.40	22.89	23.45	21.89	22.40	22.40	22.89	23.45