

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: P867363

Luminaire Tested: PRLX-2004-L-935-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867363
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-935-83L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

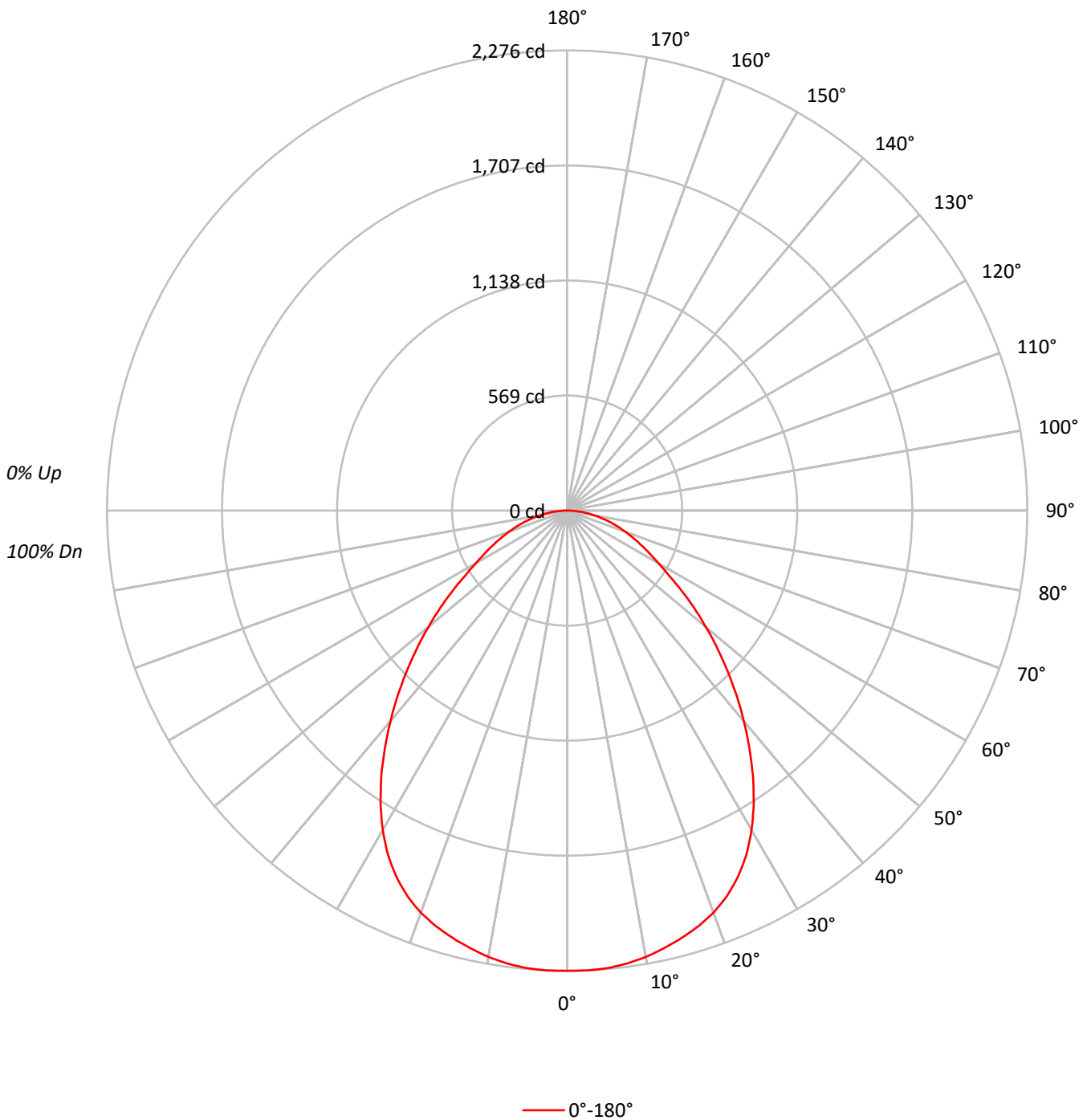
Lumens per Lamp: N/A
Luminaire Lumens: 4942.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	11231
5°	11252
10°	11231
15°	11179
20°	11110
25°	10884
30°	10394
35°	9649
40°	8758
45°	7818
50°	6871
55°	5934
60°	5146
65°	4726
70°	4411
75°	4140
80°	3904
85°	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	4.4
10°-20°	617.6	12.5
20°-30°	916.5	18.5
30°-40°	998.2	20.2
40°-50°	865.5	17.5
50°-60°	622.0	12.6
60°-70°	403.4	8.2
70°-80°	230.8	4.7
80°-90°	72.4	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°	1750.0	35.4
0°-40°	2748.2	55.6
0°-60°	4235.6	85.7
0°-90°	4942.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4942.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2276	
5°	2272	216
15°	2188	618
25°	1999	917
35°	1602	998
45°	1120	865
55°	690	622
65°	405	403
75°	217	231
85°	65	72
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2276.4
2.5°	2276.4
5°	2272.0
7.5°	2260.1
10°	2241.7
12.5°	2216.6
15°	2188.5
17.5°	2156.0
20°	2116.1
22.5°	2065.1
25°	1999.4
27.5°	1919.6
30°	1824.4
32.5°	1717.3
35°	1602.0
37.5°	1480.9
40°	1359.8
42.5°	1240.1
45°	1120.5
47.5°	1007.5
50°	895.2
52.5°	791.8
55°	689.9
57.5°	597.5
60°	521.5
62.5°	459.4
65°	404.8
67.5°	353.1
70°	305.8
72.5°	260.0
75°	217.2
77.5°	176.5
80°	137.4
82.5°	100.5
85°	65.0
87.5°	31.8
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	17.16	18.65	17.52	18.97	19.28	17.16	18.65	17.52	18.97	19.28
	3H	18.67	20.01	19.05	20.34	20.70	18.67	20.01	19.05	20.34	20.70
	4H	19.27	20.53	19.67	20.88	21.26	19.27	20.53	19.67	20.88	21.26
	6H	19.75	20.91	20.16	21.28	21.67	19.75	20.91	20.16	21.28	21.67
	8H	19.92	21.02	20.34	21.41	21.82	19.92	21.02	20.34	21.41	21.82
	12H	20.04	21.10	20.47	21.48	21.91	20.04	21.10	20.47	21.48	21.91
4H	2H	17.66	18.92	18.06	19.27	19.65	17.66	18.92	18.06	19.27	19.65
	3H	19.41	20.46	19.82	20.86	21.26	19.41	20.46	19.82	20.86	21.26
	4H	20.15	21.09	20.58	21.50	21.94	20.15	21.09	20.58	21.50	21.94
	6H	20.76	21.58	21.22	22.03	22.49	20.76	21.58	21.22	22.03	22.49
	8H	20.98	21.75	21.45	22.20	22.66	20.98	21.75	21.45	22.20	22.66
	12H	21.16	21.85	21.64	22.32	22.80	21.16	21.85	21.64	22.32	22.80
8H	4H	20.42	21.19	20.89	21.63	22.10	20.42	21.19	20.89	21.63	22.10
	6H	21.17	21.81	21.67	22.30	22.77	21.17	21.81	21.67	22.30	22.77
	8H	21.48	22.05	21.99	22.56	23.05	21.48	22.05	21.99	22.56	23.05
	12H	21.74	22.24	22.25	22.74	23.30	21.74	22.24	22.25	22.74	23.30
12H	4H	20.45	21.14	20.93	21.61	22.09	20.45	21.14	20.93	21.61	22.09
	6H	21.23	21.80	21.74	22.31	22.80	21.23	21.80	21.74	22.31	22.80
	8H	21.59	22.10	22.10	22.59	23.16	21.59	22.10	22.10	22.59	23.16