

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: P866463

Luminaire Tested: PRLX-2004-M-927-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866463
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-927-75L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

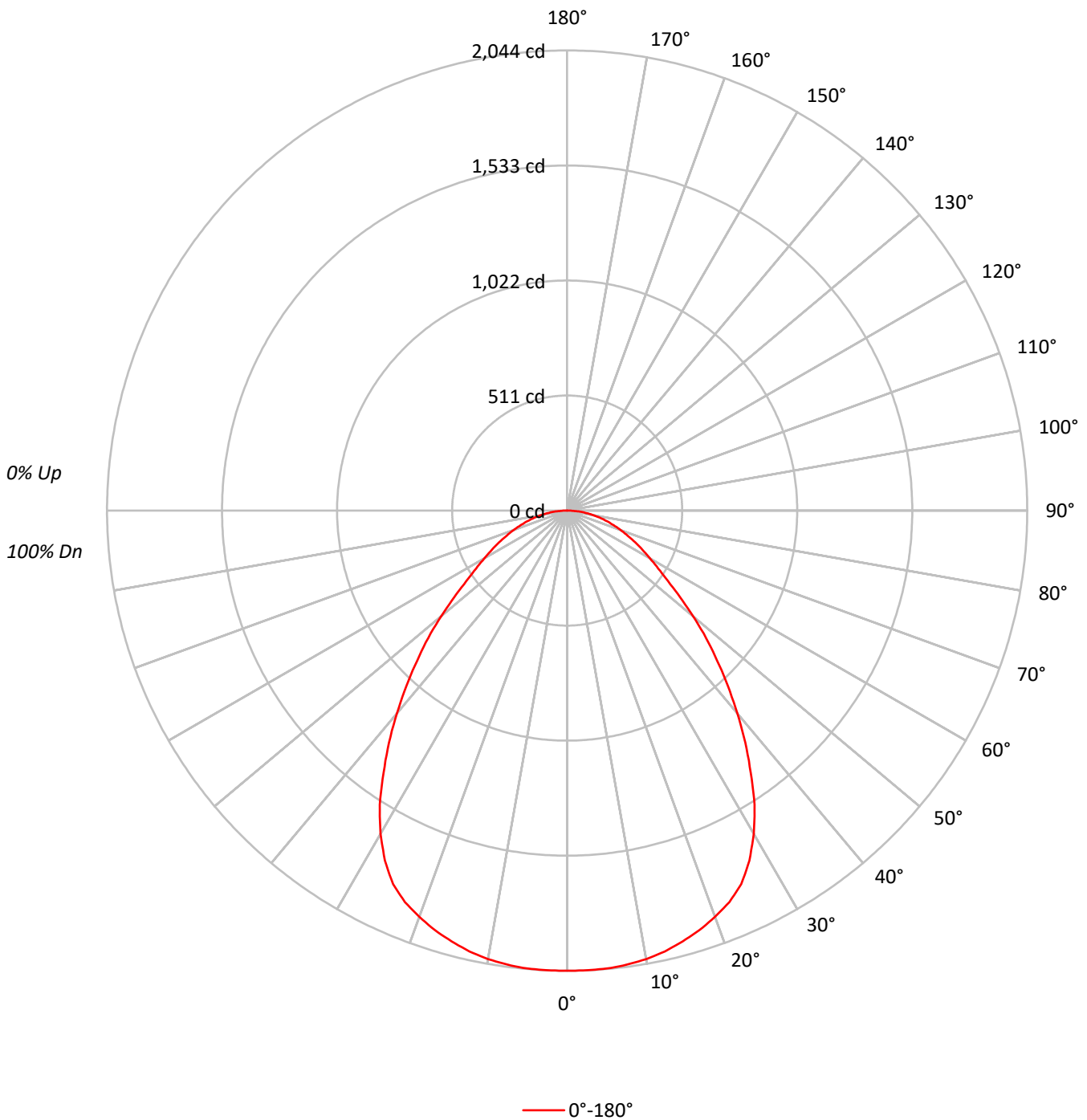
Lumens per Lamp: N/A
Luminaire Lumens: 4292.2 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	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°	16260
5°	16307
10°	16342
15°	16316
20°	16256
25°	16070
30°	15227
35°	13806
40°	12213
45°	10599
50°	9020
55°	7576
60°	6753
65°	6269
70°	5887
75°	5616
80°	5406
85°	5212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	4.5
10°-20°	559.2	13.0
20°-30°	835.9	19.5
30°-40°	887.2	20.7
40°-50°	728.7	17.0
50°-60°	498.5	11.6
60°-70°	331.4	7.7
70°-80°	194.0	4.5
80°-90°	63.2	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°	1589.4	37.0
0°-40°	2476.6	57.7
0°-60°	3703.7	86.3
0°-90°	4292.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2044	
5°	2042	194
15°	1981	559
25°	1831	836
35°	1422	887
45°	942	729
55°	546	498
65°	333	331
75°	183	194
85°	57	63
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2043.8
2.5°	2043.8
5°	2041.9
7.5°	2034.3
10°	2022.9
12.5°	2005.7
15°	1981.0
17.5°	1954.3
20°	1920.1
22.5°	1882.0
25°	1830.7
27.5°	1752.6
30°	1657.5
32.5°	1549.0
35°	1421.5
37.5°	1299.7
40°	1176.0
42.5°	1056.1
45°	942.0
47.5°	837.3
50°	728.8
52.5°	631.8
55°	546.2
57.5°	479.5
60°	424.4
62.5°	376.8
65°	333.0
67.5°	291.2
70°	253.1
72.5°	216.9
75°	182.7
77.5°	150.3
80°	118.0
82.5°	87.5
85°	57.1
87.5°	28.5
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	17.82	19.29	18.18	19.60	19.92	17.82	19.29	18.18	19.60	19.92
	3H	19.40	20.72	19.78	21.05	21.41	19.40	20.72	19.78	21.05	21.41
	4H	20.04	21.28	20.44	21.63	22.01	20.04	21.28	20.44	21.63	22.01
	6H	20.56	21.70	20.97	22.07	22.46	20.56	21.70	20.97	22.07	22.46
	8H	20.75	21.84	21.18	22.23	22.63	20.75	21.84	21.18	22.23	22.63
	12H	20.89	21.93	21.32	22.32	22.75	20.89	21.93	21.32	22.32	22.75
4H	2H	18.34	19.58	18.74	19.93	20.31	18.34	19.58	18.74	19.93	20.31
	3H	20.16	21.19	20.58	21.59	21.99	20.16	21.19	20.58	21.59	21.99
	4H	20.94	21.87	21.38	22.28	22.72	20.94	21.87	21.38	22.28	22.72
	6H	21.61	22.41	22.07	22.86	23.32	21.61	22.41	22.07	22.86	23.32
	8H	21.86	22.61	22.32	23.05	23.52	21.86	22.61	22.32	23.05	23.52
	12H	22.05	22.72	22.53	23.20	23.67	22.05	22.72	22.53	23.20	23.67
8H	4H	21.24	21.99	21.70	22.43	22.90	21.24	21.99	21.70	22.43	22.90
	6H	22.04	22.67	22.54	23.16	23.64	22.04	22.67	22.54	23.16	23.64
	8H	22.38	22.94	22.89	23.45	23.94	22.38	22.94	22.89	23.45	23.94
	12H	22.67	23.16	23.18	23.66	24.22	22.67	23.16	23.18	23.66	24.22
12H	4H	21.27	21.94	21.75	22.42	22.89	21.27	21.94	21.75	22.42	22.89
	6H	22.10	22.67	22.62	23.18	23.66	22.10	22.67	22.62	23.18	23.66
	8H	22.51	23.00	23.02	23.49	24.06	22.51	23.00	23.02	23.49	24.06