

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: P866575

Luminaire Tested: PRLX-2004-M-935-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866575
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-935-55L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

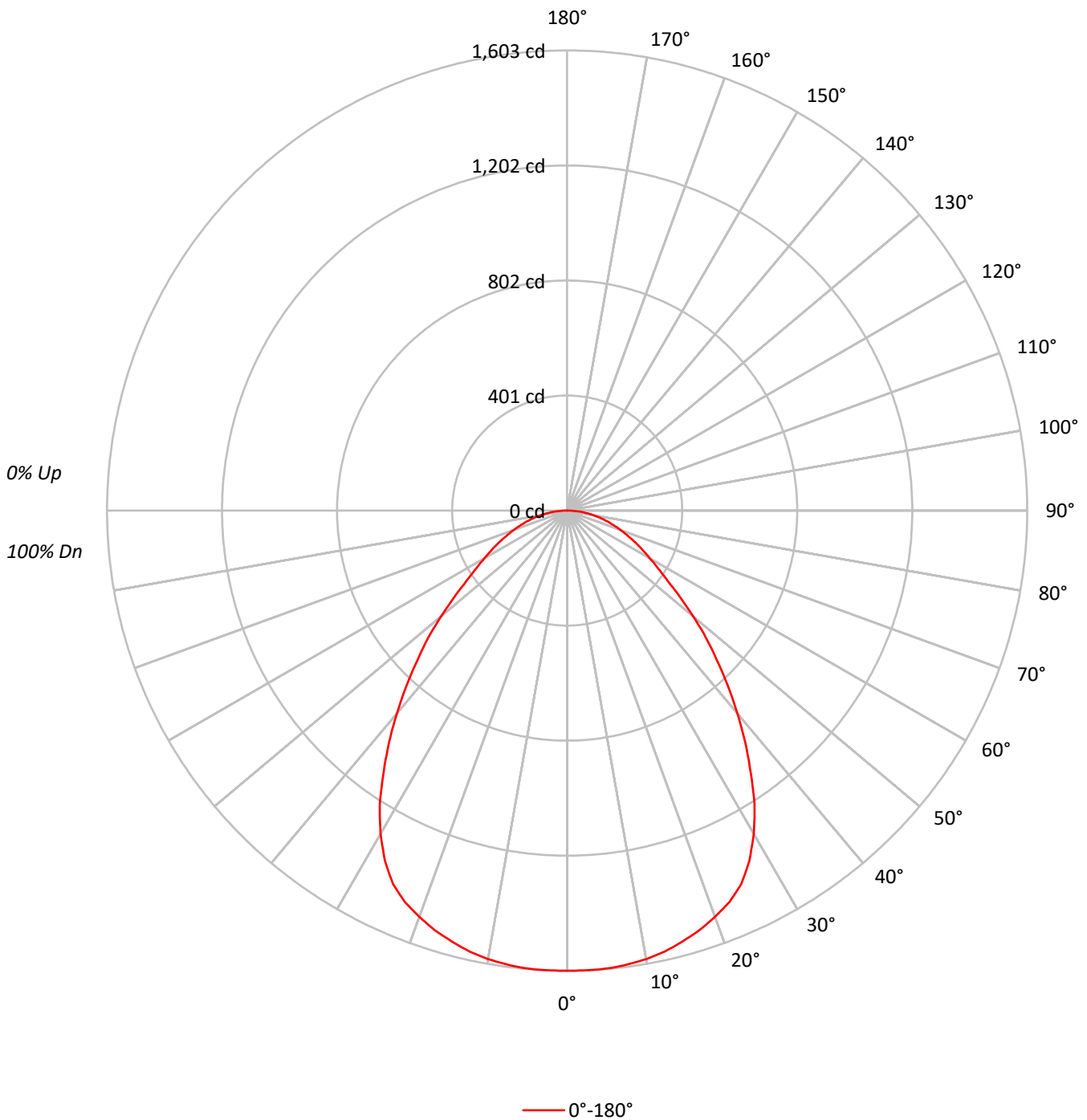
Lumens per Lamp: N/A
Luminaire Lumens: 3366.3 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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°	12752
5°	12789
10°	12817
15°	12796
20°	12749
25°	12603
30°	11942
35°	10828
40°	9579
45°	8312
50°	7075
55°	5941
60°	5295
65°	4917
70°	4617
75°	4405
80°	4238
85°	4089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	4.5
10°-20°	438.6	13.0
20°-30°	655.6	19.5
30°-40°	695.8	20.7
40°-50°	571.5	17.0
50°-60°	390.9	11.6
60°-70°	259.9	7.7
70°-80°	152.1	4.5
80°-90°	49.6	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°	1246.5	37.0
0°-40°	1942.3	57.7
0°-60°	2904.7	86.3
0°-90°	3366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1603	
5°	1601	152
15°	1554	439
25°	1436	656
35°	1115	696
45°	739	571
55°	428	391
65°	261	260
75°	143	152
85°	45	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1602.9
2.5°	1602.9
5°	1601.4
7.5°	1595.4
10°	1586.5
12.5°	1573.1
15°	1553.6
17.5°	1532.8
20°	1505.9
22.5°	1476.0
25°	1435.7
27.5°	1374.6
30°	1299.9
32.5°	1214.9
35°	1114.9
37.5°	1019.3
40°	922.3
42.5°	828.3
45°	738.8
47.5°	656.7
50°	571.6
52.5°	495.5
55°	428.3
57.5°	376.1
60°	332.8
62.5°	295.5
65°	261.2
67.5°	228.3
70°	198.5
72.5°	170.1
75°	143.3
77.5°	117.9
80°	92.5
82.5°	68.7
85°	44.8
87.5°	22.4
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	16.97	18.45	17.34	18.76	19.07	16.97	18.45	17.34	18.76	19.07
	3H	18.56	19.88	18.93	20.20	20.57	18.56	19.88	18.93	20.20	20.57
	4H	19.19	20.43	19.59	20.78	21.16	19.19	20.43	19.59	20.78	21.16
	6H	19.72	20.86	20.13	21.23	21.62	19.72	20.86	20.13	21.23	21.62
	8H	19.91	21.00	20.33	21.39	21.79	19.91	21.00	20.33	21.39	21.79
	12H	20.05	21.09	20.48	21.47	21.90	20.05	21.09	20.48	21.47	21.90
4H	2H	17.50	18.74	17.90	19.09	19.47	17.50	18.74	17.90	19.09	19.47
	3H	19.32	20.35	19.73	20.75	21.15	19.32	20.35	19.73	20.75	21.15
	4H	20.10	21.02	20.53	21.44	21.88	20.10	21.02	20.53	21.44	21.88
	6H	20.76	21.57	21.22	22.01	22.47	20.76	21.57	21.22	22.01	22.47
	8H	21.01	21.77	21.48	22.21	22.68	21.01	21.77	21.48	22.21	22.68
	12H	21.21	21.88	21.69	22.36	22.83	21.21	21.88	21.69	22.36	22.83
8H	4H	20.39	21.15	20.86	21.59	22.06	20.39	21.15	20.86	21.59	22.06
	6H	21.20	21.82	21.70	22.31	22.79	21.20	21.82	21.70	22.31	22.79
	8H	21.53	22.09	22.05	22.60	23.09	21.53	22.09	22.05	22.60	23.09
	12H	21.82	22.32	22.33	22.81	23.38	21.82	22.32	22.33	22.81	23.38
12H	4H	20.42	21.10	20.91	21.57	22.05	20.42	21.10	20.91	21.57	22.05
	6H	21.26	21.82	21.78	22.33	22.82	21.26	21.82	21.78	22.33	22.82
	8H	21.66	22.16	22.17	22.65	23.22	21.66	22.16	22.17	22.65	23.22