

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: P866591

Luminaire Tested: PRLX-2004-M-935-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866591
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-935-75L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

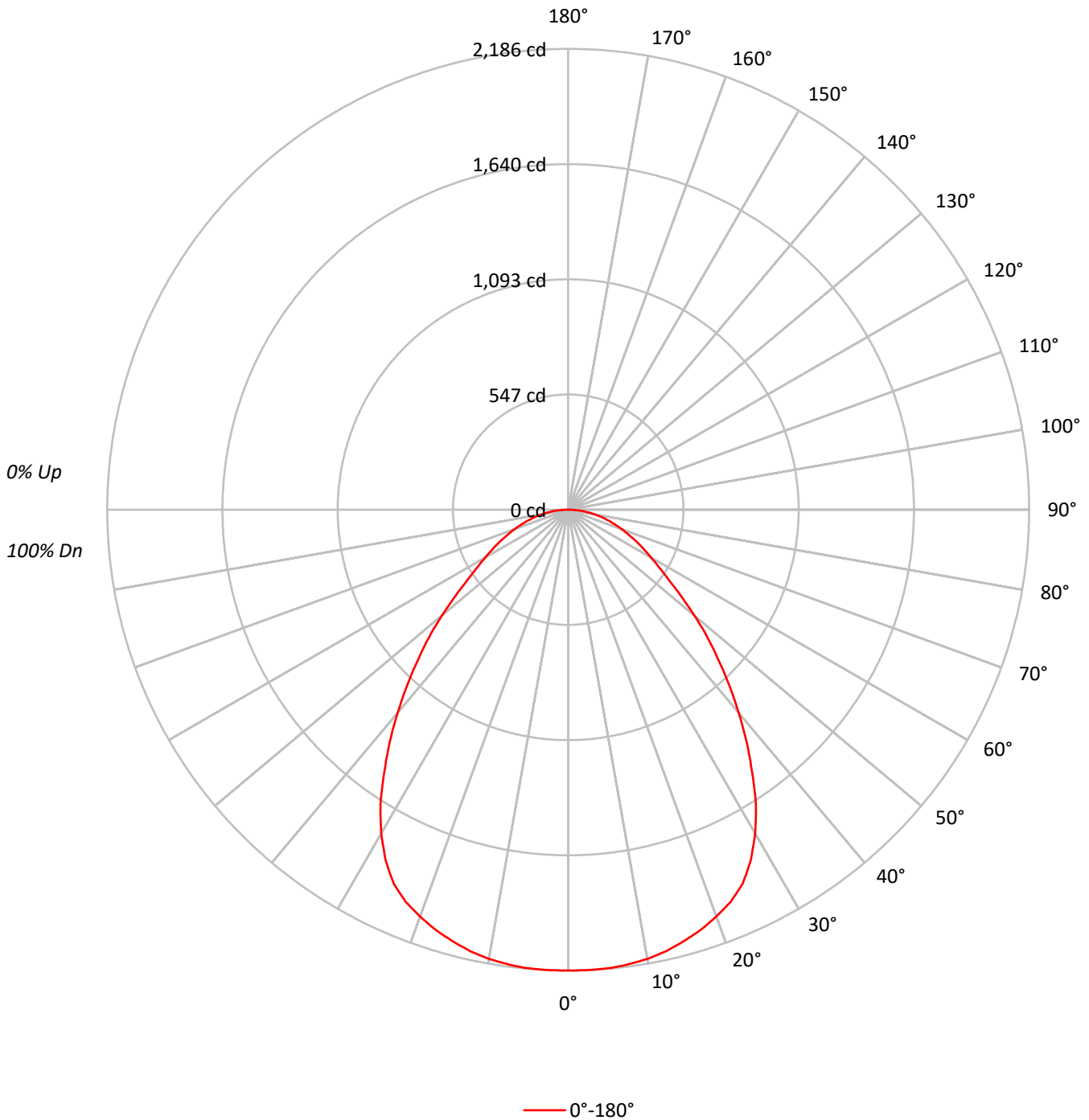
Lumens per Lamp: N/A
Luminaire Lumens: 4590.5 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	60	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°	17390
5°	17439
10°	17477
15°	17450
20°	17386
25°	17186
30°	16284
35°	14765
40°	13062
45°	11334
50°	9648
55°	8102
60°	7221
65°	6705
70°	6297
75°	6006
80°	5782
85°	5577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	4.5
10°-20°	598.1	13.0
20°-30°	894.0	19.5
30°-40°	948.8	20.7
40°-50°	779.3	17.0
50°-60°	533.1	11.6
60°-70°	354.4	7.7
70°-80°	207.5	4.5
80°-90°	67.6	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°	1699.8	37.0
0°-40°	2648.6	57.7
0°-60°	3961.0	86.3
0°-90°	4590.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4590.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2186	
5°	2184	208
15°	2119	598
25°	1958	894
35°	1520	949
45°	1007	779
55°	584	533
65°	356	354
75°	195	207
85°	61	68
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2185.8
2.5°	2185.8
5°	2183.7
7.5°	2175.6
10°	2163.4
12.5°	2145.1
15°	2118.6
17.5°	2090.1
20°	2053.5
22.5°	2012.8
25°	1957.8
27.5°	1874.4
30°	1772.6
32.5°	1656.6
35°	1520.3
37.5°	1390.0
40°	1257.7
42.5°	1129.5
45°	1007.4
47.5°	895.5
50°	779.5
52.5°	675.7
55°	584.1
57.5°	512.9
60°	453.8
62.5°	403.0
65°	356.2
67.5°	311.4
70°	270.7
72.5°	232.0
75°	195.4
77.5°	160.8
80°	126.2
82.5°	93.6
85°	61.1
87.5°	30.5
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	18.05	19.52	18.42	19.84	20.15	18.05	19.52	18.42	19.84	20.15
	3H	19.63	20.95	20.01	21.28	21.64	19.63	20.95	20.01	21.28	21.64
	4H	20.27	21.51	20.67	21.86	22.24	20.27	21.51	20.67	21.86	22.24
	6H	20.80	21.94	21.21	22.31	22.70	20.80	21.94	21.21	22.31	22.70
	8H	20.99	22.07	21.41	22.46	22.87	20.99	22.07	21.41	22.46	22.87
	12H	21.13	22.17	21.56	22.55	22.98	21.13	22.17	21.56	22.55	22.98
4H	2H	18.58	19.82	18.98	20.16	20.54	18.58	19.82	18.98	20.16	20.54
	3H	20.40	21.43	20.81	21.83	22.23	20.40	21.43	20.81	21.83	22.23
	4H	21.18	22.10	21.61	22.52	22.96	21.18	22.10	21.61	22.52	22.96
	6H	21.84	22.65	22.30	23.09	23.55	21.84	22.65	22.30	23.09	23.55
	8H	22.09	22.84	22.55	23.29	23.76	22.09	22.84	22.55	23.29	23.76
	12H	22.29	22.96	22.77	23.44	23.91	22.29	22.96	22.77	23.44	23.91
8H	4H	21.47	22.22	21.93	22.67	23.14	21.47	22.22	21.93	22.67	23.14
	6H	22.28	22.90	22.77	23.39	23.87	22.28	22.90	22.77	23.39	23.87
	8H	22.61	23.17	23.13	23.68	24.17	22.61	23.17	23.13	23.68	24.17
	12H	22.90	23.40	23.41	23.89	24.46	22.90	23.40	23.41	23.89	24.46
12H	4H	21.50	22.17	21.98	22.65	23.12	21.50	22.17	21.98	22.65	23.12
	6H	22.34	22.90	22.85	23.41	23.90	22.34	22.90	22.85	23.41	23.90
	8H	22.74	23.24	23.25	23.73	24.29	22.74	23.24	23.25	23.73	24.29