

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: P866535

Luminaire Tested: PRLX-2004-M-935-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866535
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-935-07L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

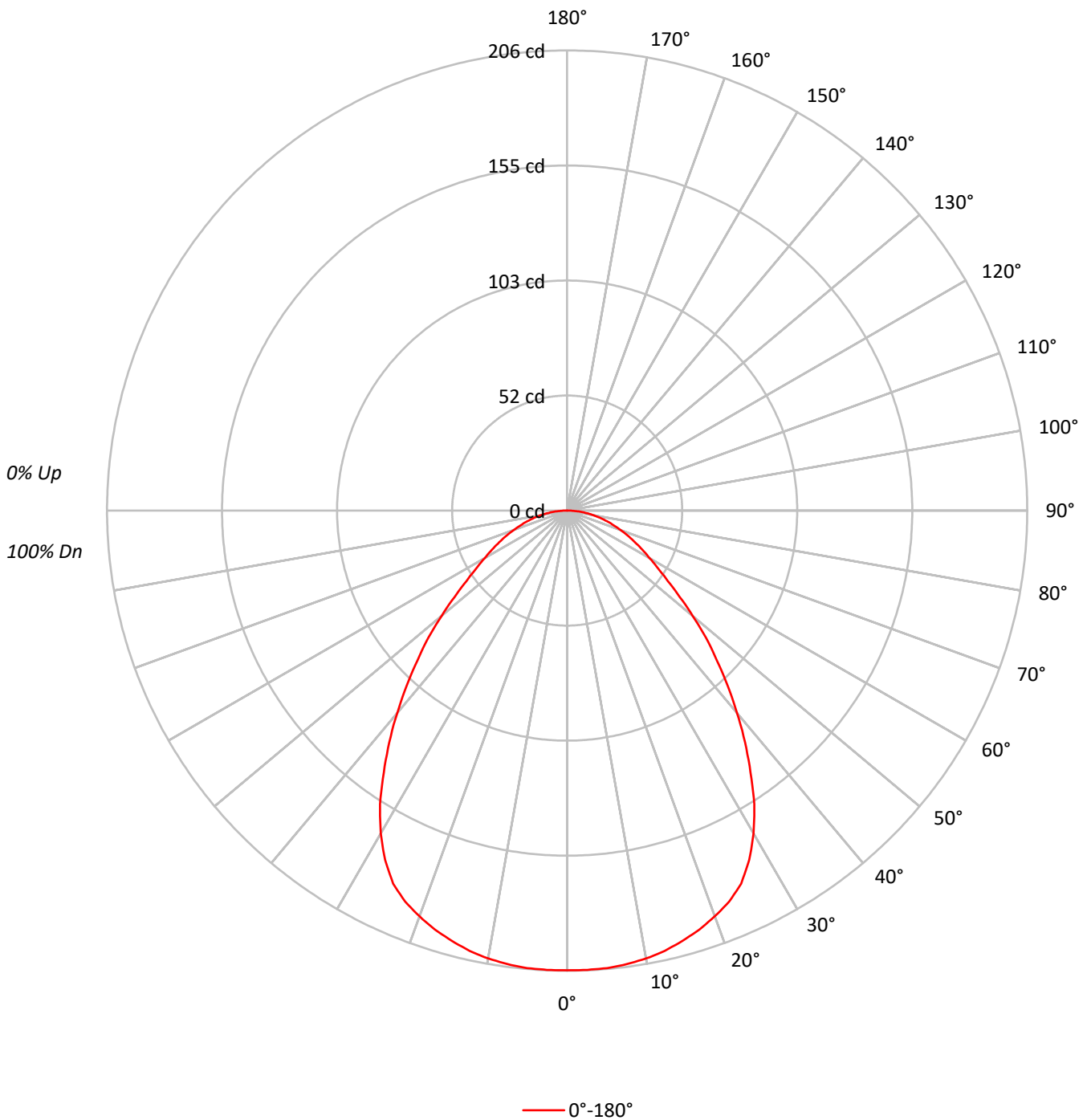
Lumens per Lamp: N/A
Luminaire Lumens: 432.1 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	1637
5°	1642
10°	1645
15°	1642
20°	1637
25°	1618
30°	1533
35°	1390
40°	1230
45°	1067
50°	908
55°	763
60°	679
65°	631
70°	593
75°	566
80°	545
85°	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	4.5
10°-20°	56.3	13.0
20°-30°	84.2	19.5
30°-40°	89.3	20.7
40°-50°	73.4	17.0
50°-60°	50.2	11.6
60°-70°	33.3	7.7
70°-80°	19.5	4.5
80°-90°	6.4	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°	160.0	37.0
0°-40°	249.3	57.7
0°-60°	372.8	86.3
0°-90°	432.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	206	
5°	206	20
15°	199	56
25°	184	84
35°	143	89
45°	95	73
55°	55	50
65°	34	33
75°	18	20
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	205.8
2.5°	205.8
5°	205.6
7.5°	204.8
10°	203.6
12.5°	201.9
15°	199.4
17.5°	196.7
20°	193.3
22.5°	189.5
25°	184.3
27.5°	176.4
30°	166.9
32.5°	155.9
35°	143.1
37.5°	130.8
40°	118.4
42.5°	106.3
45°	94.8
47.5°	84.3
50°	73.4
52.5°	63.6
55°	55.0
57.5°	48.3
60°	42.7
62.5°	37.9
65°	33.5
67.5°	29.3
70°	25.5
72.5°	21.8
75°	18.4
77.5°	15.1
80°	11.9
82.5°	8.8
85°	5.7
87.5°	2.9
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	9.84	11.32	10.21	11.63	11.94	9.84	11.32	10.21	11.63	11.94
	3H	11.43	12.75	11.80	13.07	13.44	11.43	12.75	11.80	13.07	13.44
	4H	12.06	13.30	12.46	13.65	14.03	12.06	13.30	12.46	13.65	14.03
	6H	12.59	13.73	13.00	14.10	14.49	12.59	13.73	13.00	14.10	14.49
	8H	12.78	13.86	13.20	14.25	14.66	12.78	13.86	13.20	14.25	14.66
	12H	12.92	13.96	13.35	14.34	14.77	12.92	13.96	13.35	14.34	14.77
4H	2H	10.37	11.61	10.77	11.96	12.34	10.37	11.61	10.77	11.96	12.34
	3H	12.19	13.22	12.60	13.62	14.02	12.19	13.22	12.60	13.62	14.02
	4H	12.97	13.89	13.40	14.31	14.75	12.97	13.89	13.40	14.31	14.75
	6H	13.63	14.44	14.09	14.88	15.34	13.63	14.44	14.09	14.88	15.34
	8H	13.88	14.63	14.34	15.08	15.55	13.88	14.63	14.34	15.08	15.55
	12H	14.07	14.74	14.56	15.22	15.70	14.07	14.74	14.56	15.22	15.70
8H	4H	13.26	14.01	13.72	14.46	14.93	13.26	14.01	13.72	14.46	14.93
	6H	14.07	14.69	14.56	15.18	15.66	14.07	14.69	14.56	15.18	15.66
	8H	14.40	14.96	14.92	15.47	15.96	14.40	14.96	14.92	15.47	15.96
	12H	14.69	15.18	15.20	15.68	16.24	14.69	15.18	15.20	15.68	16.24
12H	4H	13.29	13.96	13.77	14.44	14.91	13.29	13.96	13.77	14.44	14.91
	6H	14.13	14.69	14.64	15.20	15.69	14.13	14.69	14.64	15.20	15.69
	8H	14.53	15.02	15.04	15.52	16.08	14.53	15.02	15.04	15.52	16.08