

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: P866567

Luminaire Tested: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866567
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-935-45L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

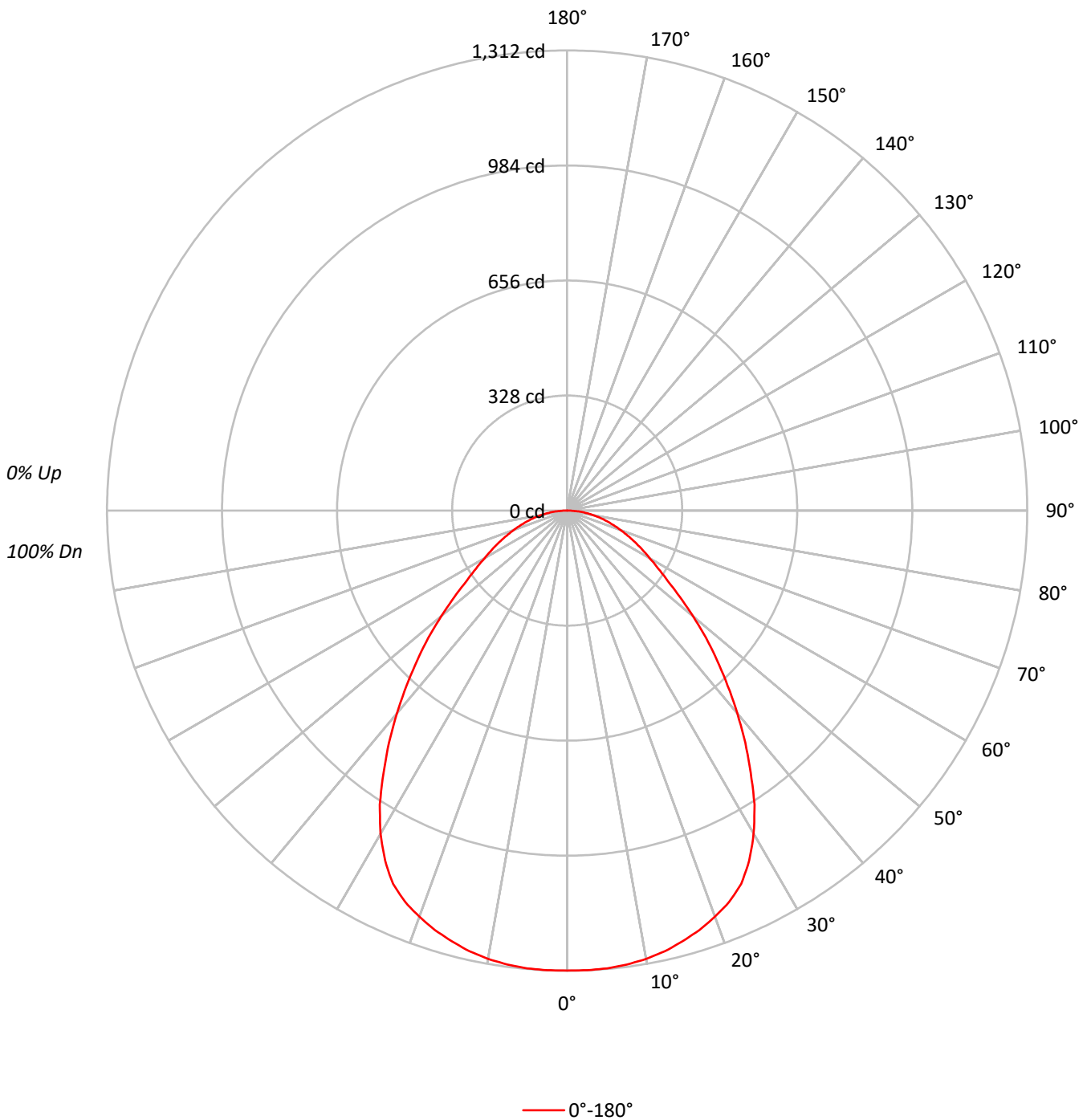
Lumens per Lamp: N/A
Luminaire Lumens: 2754.3 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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

TEST NUMBER: P866567

CATALOG NUMBER: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866567

CATALOG NUMBER: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

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°	10434
5°	10463
10°	10486
15°	10470
20°	10431
25°	10312
30°	9771
35°	8859
40°	7837
45°	6800
50°	5789
55°	4862
60°	4333
65°	4023
70°	3778
75°	3603
80°	3468
85°	3341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6800 cd/sqm

TEST NUMBER: P866567

CATALOG NUMBER: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	4.5
10°-20°	358.9	13.0
20°-30°	536.4	19.5
30°-40°	569.3	20.7
40°-50°	467.6	17.0
50°-60°	319.9	11.6
60°-70°	212.6	7.7
70°-80°	124.5	4.5
80°-90°	40.5	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°	1019.9	37.0
0°-40°	1589.2	57.7
0°-60°	2376.6	86.3
0°-90°	2754.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1312	
5°	1310	125
15°	1271	359
25°	1175	536
35°	912	569
45°	604	468
55°	350	320
65°	214	213
75°	117	124
85°	37	41
90°	0	

TEST NUMBER: P866567

CATALOG NUMBER: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1311.5
2.5°	1311.5
5°	1310.2
7.5°	1305.4
10°	1298.0
12.5°	1287.0
15°	1271.2
17.5°	1254.1
20°	1232.1
22.5°	1207.7
25°	1174.7
27.5°	1124.6
30°	1063.6
32.5°	994.0
35°	912.2
37.5°	834.0
40°	754.6
42.5°	677.7
45°	604.4
47.5°	537.3
50°	467.7
52.5°	405.4
55°	350.5
57.5°	307.7
60°	272.3
62.5°	241.8
65°	213.7
67.5°	186.8
70°	162.4
72.5°	139.2
75°	117.2
77.5°	96.5
80°	75.7
82.5°	56.2
85°	36.6
87.5°	18.3
90°	0.0



TEST NUMBER: P866567
 CATALOG NUMBER: PRLX-2004-M-935-45L-G-U-S-X-X-WHHR-X

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	16.28	17.75	16.64	18.06	18.38	16.28	17.75	16.64	18.06	18.38
	3H	17.86	19.18	18.24	19.51	19.87	17.86	19.18	18.24	19.51	19.87
	4H	18.50	19.74	18.90	20.08	20.46	18.50	19.74	18.90	20.08	20.46
	6H	19.02	20.16	19.43	20.53	20.92	19.02	20.16	19.43	20.53	20.92
	8H	19.21	20.30	19.64	20.69	21.09	19.21	20.30	19.64	20.69	21.09
	12H	19.35	20.39	19.78	20.78	21.20	19.35	20.39	19.78	20.78	21.20
4H	2H	16.80	18.04	17.20	18.39	18.77	16.80	18.04	17.20	18.39	18.77
	3H	18.62	19.65	19.03	20.05	20.45	18.62	19.65	19.03	20.05	20.45
	4H	19.40	20.33	19.83	20.74	21.18	19.40	20.33	19.83	20.74	21.18
	6H	20.07	20.87	20.53	21.32	21.78	20.07	20.87	20.53	21.32	21.78
	8H	20.31	21.07	20.78	21.51	21.98	20.31	21.07	20.78	21.51	21.98
	12H	20.51	21.18	20.99	21.66	22.13	20.51	21.18	20.99	21.66	22.13
8H	4H	19.69	20.45	20.16	20.89	21.36	19.69	20.45	20.16	20.89	21.36
	6H	20.50	21.12	21.00	21.62	22.09	20.50	21.12	21.00	21.62	22.09
	8H	20.84	21.40	21.35	21.91	22.40	20.84	21.40	21.35	21.91	22.40
	12H	21.13	21.62	21.64	22.11	22.68	21.13	21.62	21.64	22.11	22.68
12H	4H	19.73	20.40	20.21	20.88	21.35	19.73	20.40	20.21	20.88	21.35
	6H	20.56	21.12	21.08	21.63	22.12	20.56	21.12	21.08	21.63	22.12
	8H	20.97	21.46	21.48	21.95	22.52	20.97	21.46	21.48	21.95	22.52