

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: P866580

Luminaire Tested: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

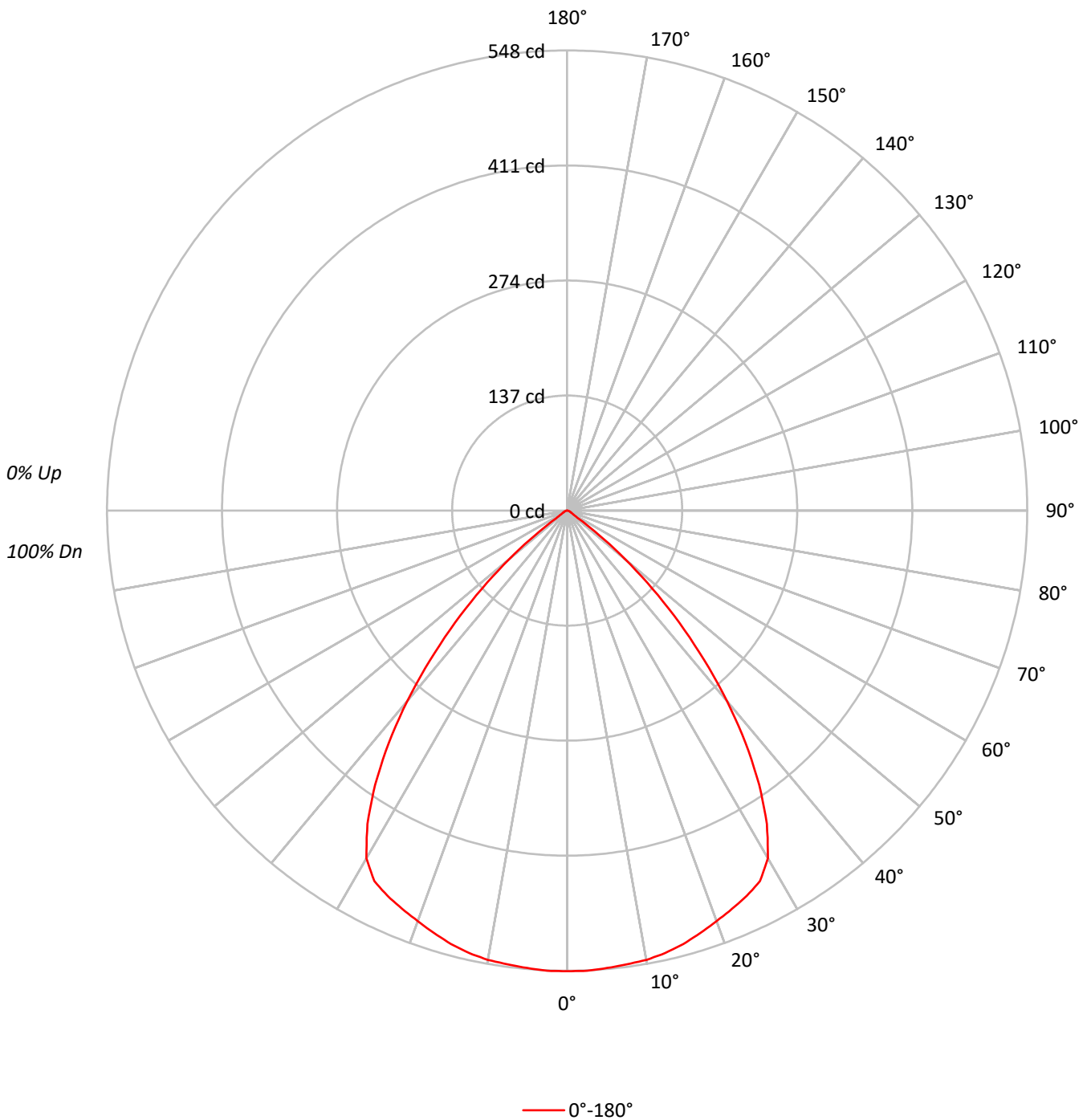
Lumens per Lamp: N/A
Luminaire Lumens: 860.9 lumens
Efficiency: N/A
Efficacy: 14.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.18
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866580

CATALOG NUMBER: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866580

CATALOG NUMBER: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-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	113	110	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4364
5°	4367
10°	4389
15°	4402
20°	4405
25°	4444
30°	4391
35°	3871
40°	3077
45°	2123
50°	1114
55°	221
60°	113
65°	100
70°	81
75°	55
80°	82
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2123 cd/sqm

TEST NUMBER: P866580

CATALOG NUMBER: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	6.1
10°-20°	150.8	17.5
20°-30°	232.8	27.0
30°-40°	245.5	28.5
40°-50°	145.2	16.9
50°-60°	26.4	3.1
60°-70°	4.8	0.6
70°-80°	2.6	0.3
80°-90°	0.7	0.1
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°	435.7	50.6
0°-40°	681.2	79.1
0°-60°	852.8	99.1
0°-90°	860.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	548	
5°	547	52
15°	534	151
25°	506	233
35°	399	246
45°	189	145
55°	16	26
65°	5	5
75°	2	3
85°	0	1
90°	0	

TEST NUMBER: P866580

CATALOG NUMBER: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	548.5
2.5°	548.5
5°	546.8
7.5°	545.0
10°	543.3
12.5°	539.7
15°	534.4
17.5°	527.4
20°	520.3
22.5°	513.3
25°	506.2
27.5°	497.4
30°	478.0
32.5°	442.7
35°	398.6
37.5°	349.2
40°	296.3
42.5°	241.6
45°	188.7
47.5°	137.6
50°	90.0
52.5°	47.6
55°	15.9
57.5°	8.8
60°	7.1
62.5°	5.3
65°	5.3
67.5°	3.5
70°	3.5
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



TEST NUMBER: P866580
 CATALOG NUMBER: PRLX-2004-M-935-65L-G-U-S-X-X-BLAK-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06
	12H	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.46
	12H	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.57
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.04	0.62	0.00	0.00	0.00	0.04	0.62