

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: P866513

Luminaire Tested: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

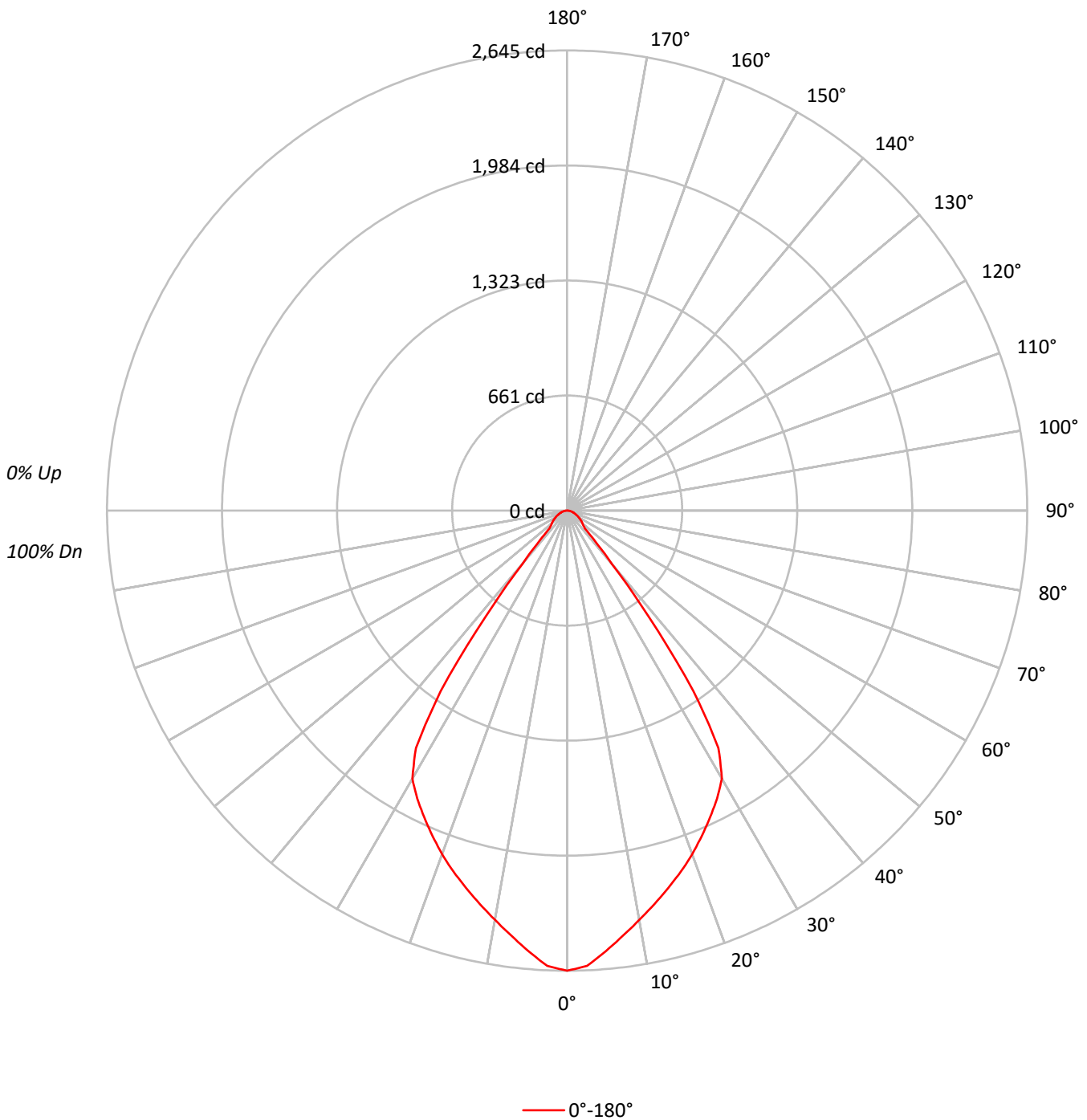
Lumens per Lamp: N/A
Luminaire Lumens: 2823.2 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866513

CATALOG NUMBER: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866513

CATALOG NUMBER: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-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	103	103	101	99		100	98	97		96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74		81	77	74		79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68		76	71	68		74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70	66	62	61
7	80	70	64	59	79	69	63	59	68	62	58		67	62	58		66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21041
5°	20304
10°	19298
15°	18494
20°	17797
25°	17066
30°	16341
35°	12303
40°	4147
45°	1613
50°	1431
55°	1319
60°	1211
65°	1101
70°	1021
75°	990
80°	939
85°	931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1613 cd/sqm

TEST NUMBER: P866513

CATALOG NUMBER: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	8.4
10°-20°	632.5	22.4
20°-30°	895.3	31.7
30°-40°	726.5	25.7
40°-50°	142.6	5.1
50°-60°	85.1	3.0
60°-70°	58.6	2.1
70°-80°	33.9	1.2
80°-90°	10.7	0.4
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°	1765.6	62.5
0°-40°	2492.1	88.3
0°-60°	2719.9	96.3
0°-90°	2823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2645	
5°	2542	238
15°	2245	632
25°	1944	895
35°	1267	726
45°	143	143
55°	95	85
65°	58	59
75°	32	34
85°	10	11
90°	0	

TEST NUMBER: P866513

CATALOG NUMBER: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2644.8
2.5°	2619.9
5°	2542.4
7.5°	2463.4
10°	2388.8
12.5°	2317.1
15°	2245.4
17.5°	2175.2
20°	2102.1
22.5°	2023.1
25°	1944.1
27.5°	1866.5
30°	1778.8
32.5°	1617.9
35°	1266.8
37.5°	769.4
40°	399.3
42.5°	225.3
45°	143.4
47.5°	124.3
50°	115.6
52.5°	105.3
55°	95.1
57.5°	84.8
60°	76.1
62.5°	67.3
65°	58.5
67.5°	51.2
70°	43.9
72.5°	38.0
75°	32.2
77.5°	26.3
80°	20.5
82.5°	14.6
85°	10.2
87.5°	4.4
90°	0.0



TEST NUMBER: P866513
 CATALOG NUMBER: PRLX-2004-M-930-55L-L-U-S-X-X-BRSS-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	7.77	8.82	8.13	9.13	9.45	7.77	8.82	8.13	9.13	9.45
	3H	9.26	10.20	9.65	10.53	10.90	9.26	10.20	9.65	10.53	10.90
	4H	9.87	10.74	10.28	11.09	11.48	9.87	10.74	10.28	11.09	11.48
	6H	10.35	11.15	10.77	11.52	11.92	10.35	11.15	10.77	11.52	11.92
	8H	10.51	11.26	10.95	11.65	12.06	10.51	11.26	10.95	11.65	12.06
	12H	10.63	11.34	11.06	11.72	12.16	10.63	11.34	11.06	11.72	12.16
4H	2H	8.21	9.07	8.61	9.42	9.81	8.21	9.07	8.61	9.42	9.81
	3H	9.92	10.63	10.34	11.04	11.45	9.92	10.63	10.34	11.04	11.45
	4H	10.67	11.30	11.11	11.72	12.17	10.67	11.30	11.11	11.72	12.17
	6H	11.29	11.83	11.75	12.28	12.75	11.29	11.83	11.75	12.28	12.75
	8H	11.49	12.00	11.97	12.45	12.92	11.49	12.00	11.97	12.45	12.92
	12H	11.66	12.10	12.15	12.58	13.06	11.66	12.10	12.15	12.58	13.06
8H	4H	10.90	11.41	11.37	11.86	12.33	10.90	11.41	11.37	11.86	12.33
	6H	11.66	12.06	12.17	12.56	13.05	11.66	12.06	12.17	12.56	13.05
	8H	11.95	12.31	12.48	12.83	13.33	11.95	12.31	12.48	12.83	13.33
	12H	12.22	12.53	12.74	13.03	13.61	12.22	12.53	12.74	13.03	13.61
12H	4H	10.90	11.34	11.39	11.83	12.31	10.90	11.34	11.39	11.83	12.31
	6H	11.70	12.06	12.23	12.58	13.08	11.70	12.06	12.23	12.58	13.08
	8H	12.05	12.36	12.57	12.86	13.44	12.05	12.36	12.57	12.86	13.44