

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: P866653

Luminaire Tested: PRLX-2004-M-940-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-75L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

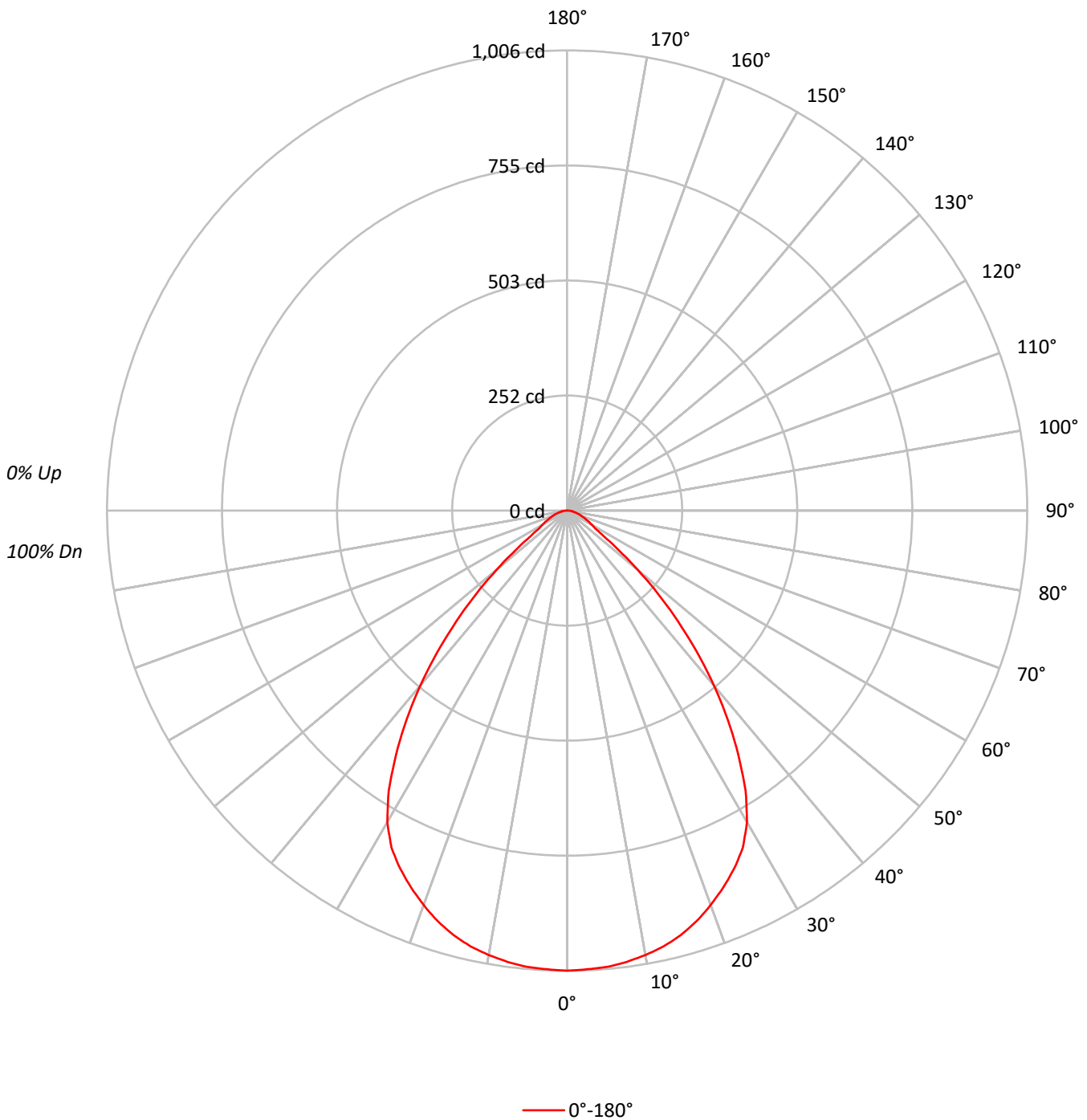
Lumens per Lamp: N/A
Luminaire Lumens: 1606.0 lumens
Efficiency: N/A
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: P866653

CATALOG NUMBER: PRLX-2004-M-940-75L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866653

CATALOG NUMBER: PRLX-2004-M-940-75L-G-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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8003
5°	7999
10°	7969
15°	7913
20°	7769
25°	7583
30°	7222
35°	6339
40°	5190
45°	3854
50°	2479
55°	1344
60°	994
65°	851
70°	751
75°	661
80°	591
85°	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3854 cd/sqm

TEST NUMBER: P866653

CATALOG NUMBER: PRLX-2004-M-940-75L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	5.9
10°-20°	270.4	16.8
20°-30°	396.2	24.7
30°-40°	404.6	25.2
40°-50°	264.4	16.5
50°-60°	98.3	6.1
60°-70°	45.8	2.9
70°-80°	23.5	1.5
80°-90°	7.6	0.5
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°	761.7	47.4
0°-40°	1166.3	72.6
0°-60°	1529.0	95.2
0°-90°	1606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1006	
5°	1002	95
15°	961	270
25°	864	396
35°	653	405
45°	342	264
55°	97	98
65°	45	46
75°	22	24
85°	6	8
90°	0	

TEST NUMBER: P866653

CATALOG NUMBER: PRLX-2004-M-940-75L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1005.9
2.5°	1003.8
5°	1001.6
7.5°	995.2
10°	986.5
12.5°	975.8
15°	960.7
17.5°	941.3
20°	917.6
22.5°	891.8
25°	863.8
27.5°	831.4
30°	786.2
32.5°	725.9
35°	652.7
37.5°	577.3
40°	499.7
42.5°	420.0
45°	342.5
47.5°	269.3
50°	200.3
52.5°	142.2
55°	96.9
57.5°	73.2
60°	62.5
62.5°	53.9
65°	45.2
67.5°	38.8
70°	32.3
72.5°	28.0
75°	21.5
77.5°	17.2
80°	12.9
82.5°	10.8
85°	6.5
87.5°	4.3
90°	0.0



TEST NUMBER: P866653
 CATALOG NUMBER: PRLX-2004-M-940-75L-G-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	8.43	9.69	8.79	10.00	10.31	8.43	9.69	8.79	10.00	10.31
	3H	9.62	10.73	10.00	11.06	11.43	9.62	10.73	10.00	11.06	11.43
	4H	10.06	11.09	10.46	11.44	11.83	10.06	11.09	10.46	11.44	11.83
	6H	10.37	11.31	10.78	11.69	12.08	10.37	11.31	10.78	11.69	12.08
	8H	10.50	11.39	10.93	11.78	12.19	10.50	11.39	10.93	11.78	12.19
	12H	10.58	11.44	11.02	11.82	12.25	10.58	11.44	11.02	11.82	12.25
4H	2H	8.79	9.83	9.20	10.18	10.56	8.79	9.83	9.20	10.18	10.56
	3H	10.21	11.05	10.62	11.46	11.86	10.21	11.05	10.62	11.46	11.86
	4H	10.75	11.50	11.19	11.92	12.37	10.75	11.50	11.19	11.92	12.37
	6H	11.18	11.82	11.64	12.27	12.74	11.18	11.82	11.64	12.27	12.74
	8H	11.35	11.96	11.82	12.41	12.88	11.35	11.96	11.82	12.41	12.88
	12H	11.49	12.02	11.98	12.51	12.98	11.49	12.02	11.98	12.51	12.98
8H	4H	10.92	11.52	11.39	11.97	12.44	10.92	11.52	11.39	11.97	12.44
	6H	11.45	11.94	11.95	12.44	12.92	11.45	11.94	11.95	12.44	12.92
	8H	11.71	12.16	12.24	12.67	13.17	11.71	12.16	12.24	12.67	13.17
	12H	11.94	12.33	12.45	12.82	13.40	11.94	12.33	12.45	12.82	13.40
12H	4H	10.91	11.44	11.40	11.93	12.40	10.91	11.44	11.40	11.93	12.40
	6H	11.47	11.92	12.00	12.43	12.93	11.47	11.92	12.00	12.43	12.93
	8H	11.80	12.19	12.32	12.69	13.26	11.80	12.19	12.32	12.69	13.26