

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: P866382

Luminaire Tested: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

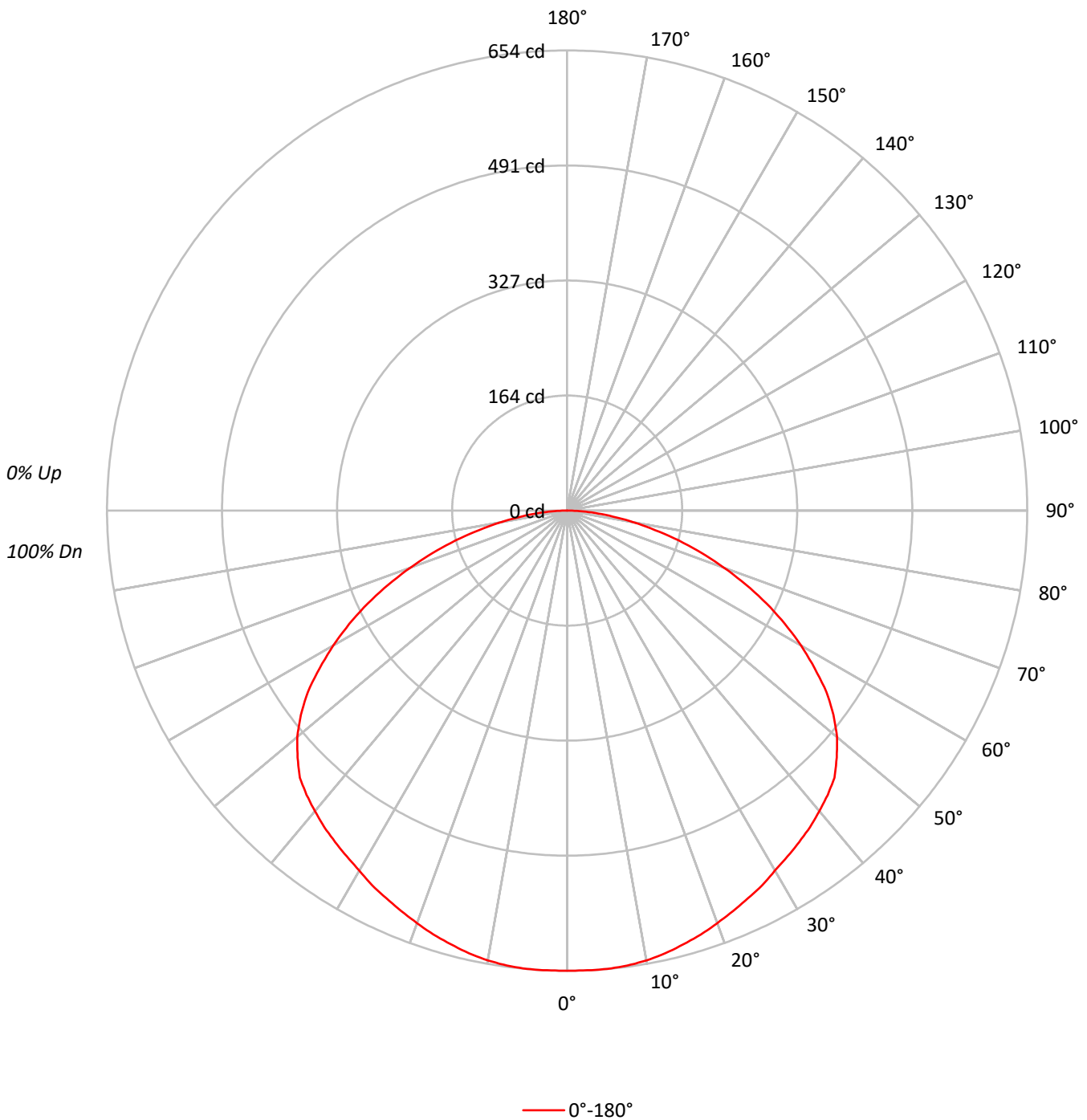
Lumens per Lamp: N/A
Luminaire Lumens: 2225.6 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: P866382

CATALOG NUMBER: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866382

CATALOG NUMBER: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5203
5°	5223
10°	5245
15°	5256
20°	5282
25°	5338
30°	5427
35°	5585
40°	5791
45°	6043
50°	6197
55°	6244
60°	6107
65°	5888
70°	5511
75°	5050
80°	4417
85°	3606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 6244 cd/sqm

TEST NUMBER: P866382

CATALOG NUMBER: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	2.8
10°-20°	180.4	8.1
20°-30°	281.0	12.6
30°-40°	360.7	16.2
40°-50°	412.6	18.5
50°-60°	399.7	18.0
60°-70°	308.6	13.9
70°-80°	173.9	7.8
80°-90°	46.6	2.1
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°	523.6	23.5
0°-40°	884.3	39.7
0°-60°	1696.6	76.2
0°-90°	2225.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	654	
5°	654	62
15°	638	180
25°	608	281
35°	575	361
45°	537	413
55°	450	400
65°	313	309
75°	164	174
85°	40	47
90°	0	



TEST NUMBER: P866382

CATALOG NUMBER: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	654.0
2.5°	654.0
5°	654.0
7.5°	652.4
10°	649.2
12.5°	644.5
15°	638.2
17.5°	631.8
20°	623.9
22.5°	616.0
25°	608.1
27.5°	600.3
30°	590.8
32.5°	582.9
35°	575.0
37.5°	567.1
40°	557.6
42.5°	548.1
45°	537.1
47.5°	519.7
50°	500.7
52.5°	477.0
55°	450.2
57.5°	417.0
60°	383.8
62.5°	349.1
65°	312.8
67.5°	274.9
70°	236.9
72.5°	200.6
75°	164.3
77.5°	127.9
80°	96.4
82.5°	66.3
85°	39.5
87.5°	17.4
90°	0.0



TEST NUMBER: P866382
 CATALOG NUMBER: PRLX-2002-M-940-55L-G-U-S-X-X-GREY-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	18.85	20.55	19.21	20.87	21.18	18.85	20.55	19.21	20.87	21.18
	3H	20.67	22.21	21.04	22.54	22.90	20.67	22.21	21.04	22.54	22.90
	4H	21.33	22.79	21.73	23.13	23.51	21.33	22.79	21.73	23.13	23.51
	6H	21.80	23.15	22.20	23.51	23.90	21.80	23.15	22.20	23.51	23.90
	8H	21.94	23.24	22.36	23.62	24.02	21.94	23.24	22.36	23.62	24.02
	12H	22.04	23.28	22.46	23.66	24.09	22.04	23.28	22.46	23.66	24.09
4H	2H	19.51	20.97	19.91	21.31	21.69	19.51	20.97	19.91	21.31	21.69
	3H	21.54	22.76	21.95	23.16	23.56	21.54	22.76	21.95	23.16	23.56
	4H	22.32	23.44	22.75	23.85	24.28	22.32	23.44	22.75	23.85	24.28
	6H	22.91	23.89	23.36	24.33	24.78	22.91	23.89	23.36	24.33	24.78
	8H	23.10	24.02	23.56	24.46	24.92	23.10	24.02	23.56	24.46	24.92
	12H	23.24	24.06	23.72	24.54	25.00	23.24	24.06	23.72	24.54	25.00
8H	4H	22.64	23.55	23.09	23.99	24.45	22.64	23.55	23.09	23.99	24.45
	6H	23.34	24.10	23.83	24.59	25.06	23.34	24.10	23.83	24.59	25.06
	8H	23.60	24.28	24.10	24.78	25.27	23.60	24.28	24.10	24.78	25.27
	12H	23.80	24.41	24.31	24.89	25.45	23.80	24.41	24.31	24.89	25.45
12H	4H	22.67	23.49	23.15	23.97	24.43	22.67	23.49	23.15	23.97	24.43
	6H	23.39	24.08	23.90	24.58	25.07	23.39	24.08	23.90	24.58	25.07
	8H	23.71	24.31	24.21	24.80	25.36	23.71	24.31	24.21	24.80	25.36