

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: P866386

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-55L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

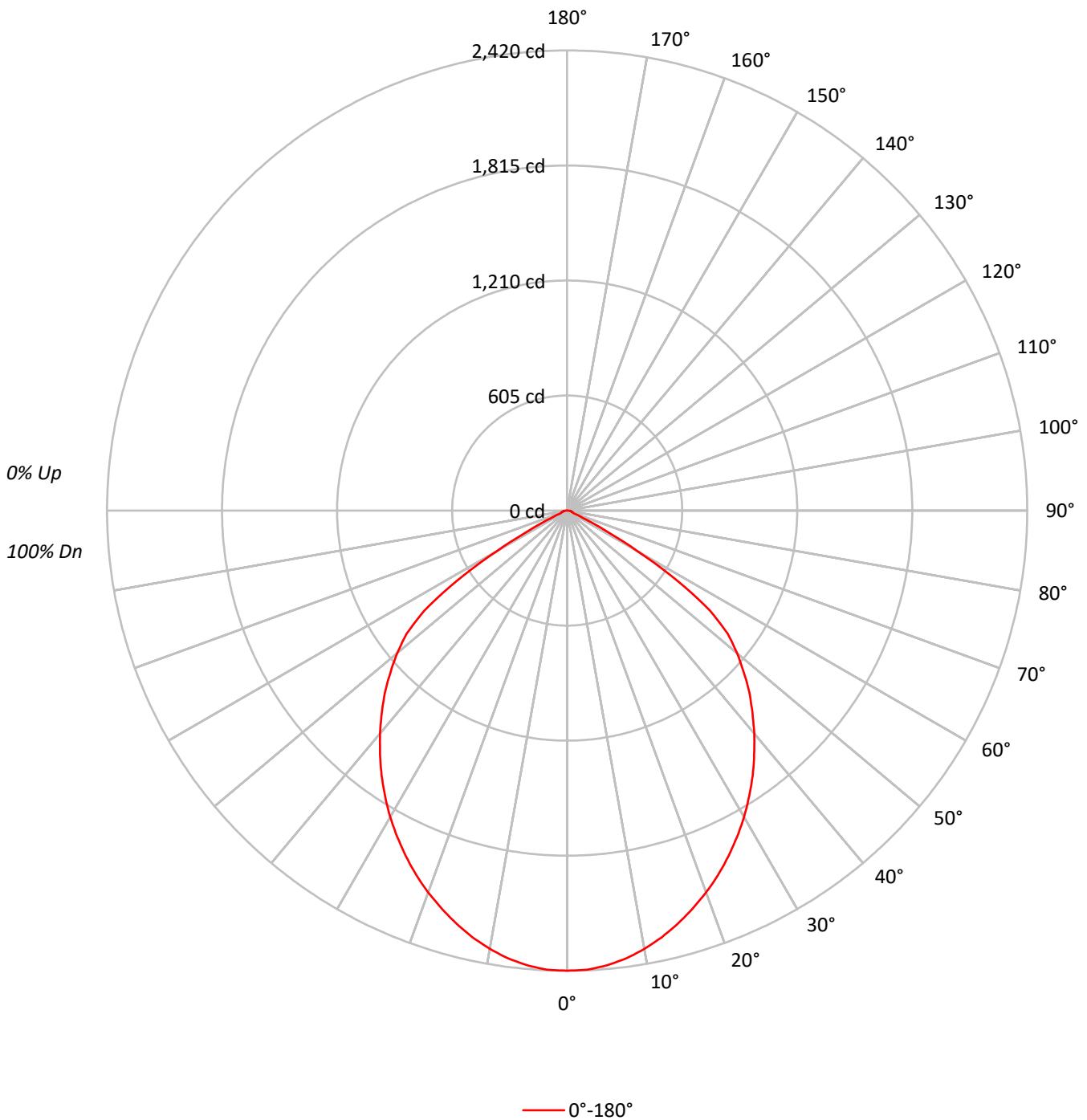
Lumens per Lamp: N/A
Luminaire Lumens: 4846.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: P866386

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

Luminous Intensity Polar Plot





TEST NUMBER: P866386

CATALOG NUMBER: PRLX-2002-M-940-55L-L-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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19253
5°	19175
10°	18912
15°	18527
20°	18094
25°	17610
30°	17094
35°	16522
40°	15896
45°	15249
50°	14448
55°	12730
60°	6786
65°	1785
70°	735
75°	827
80°	939
85°	1150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15249 cd/sqm

TEST NUMBER: P866386

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	4.7
10°-20°	633.5	13.1
20°-30°	923.6	19.1
30°-40°	1063.0	21.9
40°-50°	1043.0	21.5
50°-60°	772.6	15.9
60°-70°	142.6	2.9
70°-80°	28.2	0.6
80°-90°	12.7	0.3
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°	1784.4	36.8
0°-40°	2847.4	58.8
0°-60°	4663.0	96.2
0°-90°	4846.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2420	
5°	2401	227
15°	2249	633
25°	2006	924
35°	1701	1063
45°	1355	1043
55°	918	773
65°	95	143
75°	27	28
85°	13	13
90°	0	

TEST NUMBER: P866386

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	2420.0
2.5°	2416.8
5°	2401.0
7.5°	2375.7
10°	2341.0
12.5°	2298.3
15°	2249.4
17.5°	2194.1
20°	2137.2
22.5°	2074.0
25°	2006.1
27.5°	1935.0
30°	1860.8
32.5°	1781.8
35°	1701.2
37.5°	1615.9
40°	1530.6
42.5°	1442.2
45°	1355.3
47.5°	1260.5
50°	1167.3
52.5°	1064.7
55°	917.8
57.5°	693.5
60°	426.5
62.5°	219.6
65°	94.8
67.5°	41.1
70°	31.6
72.5°	30.0
75°	26.9
77.5°	23.7
80°	20.5
82.5°	17.4
85°	12.6
87.5°	6.3
90°	0.0



TEST NUMBER: P866386
 CATALOG NUMBER: PRLX-2002-M-940-55L-L-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	19.87	21.30	20.24	21.61	21.93	19.87	21.30	20.24	21.61	21.93
	3H	19.77	21.03	20.15	21.36	21.72	19.77	21.03	20.15	21.36	21.72
	4H	19.72	20.89	20.12	21.24	21.62	19.72	20.89	20.12	21.24	21.62
	6H	19.66	20.73	20.08	21.10	21.50	19.66	20.73	20.08	21.10	21.50
	8H	19.63	20.65	20.06	21.04	21.44	19.63	20.65	20.06	21.04	21.44
	12H	19.60	20.58	20.04	20.96	21.39	19.60	20.58	20.04	20.96	21.39
4H	2H	19.72	20.89	20.13	21.24	21.62	19.72	20.89	20.13	21.24	21.62
	3H	19.64	20.58	20.05	20.98	21.38	19.64	20.58	20.05	20.98	21.38
	4H	19.58	20.41	20.01	20.83	21.27	19.58	20.41	20.01	20.83	21.27
	6H	19.53	20.25	19.99	20.70	21.16	19.53	20.25	19.99	20.70	21.16
	8H	19.50	20.17	19.96	20.62	21.09	19.50	20.17	19.96	20.62	21.09
	12H	19.47	20.07	19.95	20.55	21.03	19.47	20.07	19.95	20.55	21.03
8H	4H	19.46	20.14	19.93	20.58	21.05	19.46	20.14	19.93	20.58	21.05
	6H	19.40	19.96	19.90	20.45	20.93	19.40	19.96	19.90	20.45	20.93
	8H	19.36	19.87	19.88	20.39	20.88	19.36	19.87	19.88	20.39	20.88
	12H	19.35	19.80	19.86	20.30	20.87	19.35	19.80	19.86	20.30	20.87
12H	4H	19.42	20.02	19.90	20.50	20.97	19.42	20.02	19.90	20.50	20.97
	6H	19.34	19.85	19.86	20.36	20.85	19.34	19.85	19.86	20.36	20.85
	8H	19.33	19.78	19.84	20.28	20.85	19.33	19.78	19.84	20.28	20.85