

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: P866270

Luminaire Tested: PRLX-2002-M-930-75L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866270
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: Prenalux
Catalog Number: PRLX-2002-M-930-75L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

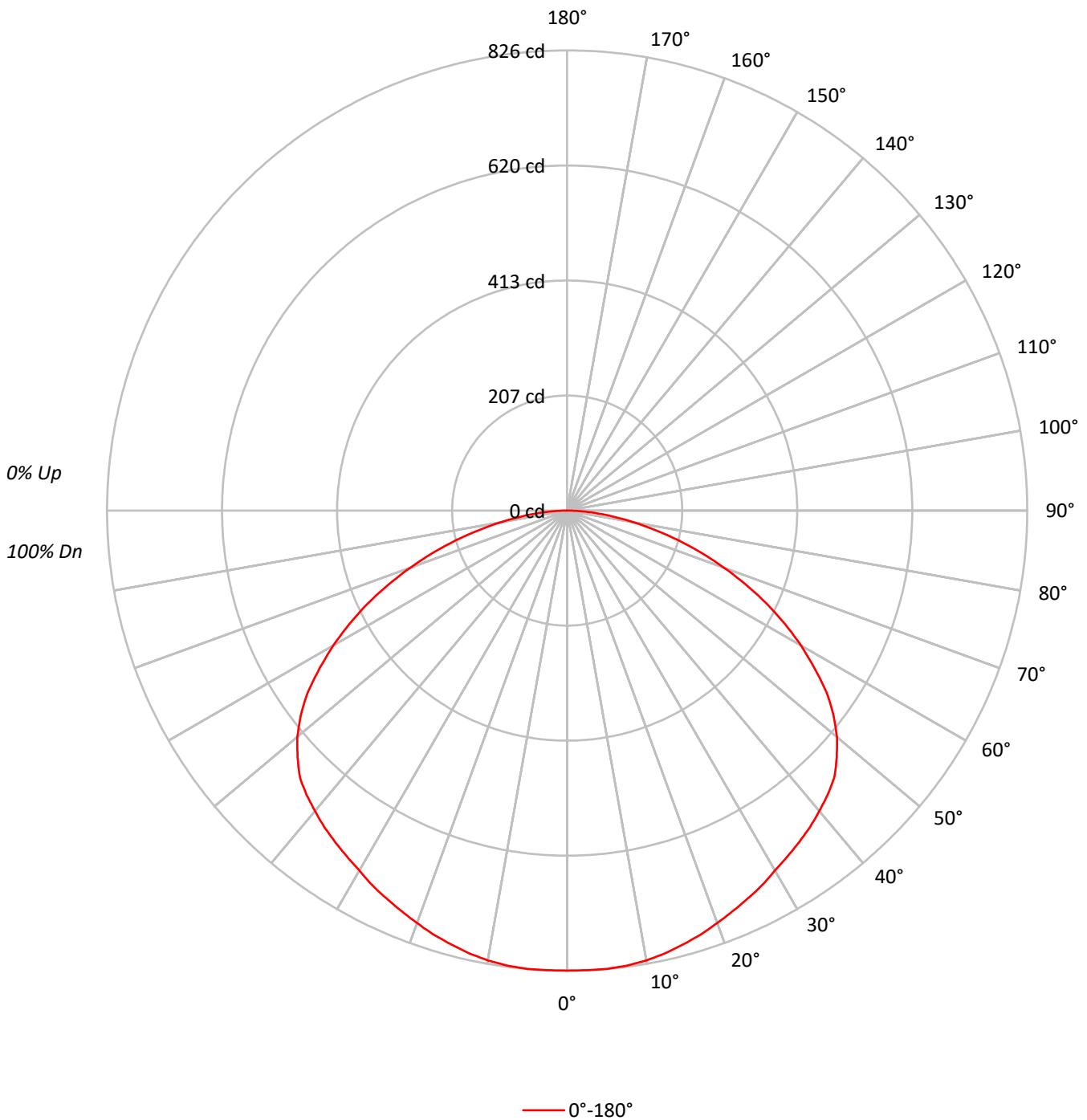
Lumens per Lamp: N/A
Luminaire Lumens: 2810.5 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P866270

CATALOG NUMBER: PRLX-2002-M-930-75L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866270

CATALOG NUMBER: PRLX-2002-M-930-75L-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°	6570
5°	6595
10°	6623
15°	6638
20°	6671
25°	6742
30°	6853
35°	7052
40°	7312
45°	7631
50°	7826
55°	7885
60°	7712
65°	7436
70°	6960
75°	6378
80°	5576
85°	4555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7885 cd/sqm

TEST NUMBER: P866270

CATALOG NUMBER: PRLX-2002-M-930-75L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	2.8
10°-20°	227.8	8.1
20°-30°	354.8	12.6
30°-40°	455.5	16.2
40°-50°	521.0	18.5
50°-60°	504.7	18.0
60°-70°	389.6	13.9
70°-80°	219.6	7.8
80°-90°	58.9	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°	661.3	23.5
0°-40°	1116.7	39.7
0°-60°	2142.5	76.2
0°-90°	2810.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	826	
5°	826	79
15°	806	228
25°	768	355
35°	726	455
45°	678	521
55°	568	505
65°	395	390
75°	208	220
85°	50	59
90°	0	

TEST NUMBER: P866270

CATALOG NUMBER: PRLX-2002-M-930-75L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	825.8
2.5°	825.8
5°	825.8
7.5°	823.8
10°	819.8
12.5°	813.9
15°	805.9
17.5°	797.9
20°	787.9
22.5°	777.9
25°	768.0
27.5°	758.0
30°	746.0
32.5°	736.1
35°	726.1
37.5°	716.1
40°	704.1
42.5°	692.2
45°	678.2
47.5°	656.3
50°	632.3
52.5°	602.4
55°	568.5
57.5°	526.6
60°	484.7
62.5°	440.8
65°	395.0
67.5°	347.1
70°	299.2
72.5°	253.3
75°	207.5
77.5°	161.6
80°	121.7
82.5°	83.8
85°	49.9
87.5°	21.9
90°	0.0

TEST NUMBER: P866270
 CATALOG NUMBER: PRLX-2002-M-930-75L-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	19.66	21.36	20.03	21.68	21.99	19.66	21.36	20.03	21.68	21.99
	3H	21.48	23.02	21.85	23.35	23.71	21.48	23.02	21.85	23.35	23.71
	4H	22.14	23.60	22.54	23.95	24.32	22.14	23.60	22.54	23.95	24.32
	6H	22.61	23.96	23.02	24.32	24.71	22.61	23.96	23.02	24.32	24.71
	8H	22.75	24.05	23.18	24.43	24.83	22.75	24.05	23.18	24.43	24.83
	12H	22.85	24.09	23.28	24.47	24.90	22.85	24.09	23.28	24.47	24.90
4H	2H	20.32	21.78	20.72	22.12	22.50	20.32	21.78	20.72	22.12	22.50
	3H	22.35	23.57	22.76	23.97	24.37	22.35	23.57	22.76	23.97	24.37
	4H	23.14	24.25	23.57	24.66	25.09	23.14	24.25	23.57	24.66	25.09
	6H	23.72	24.70	24.17	25.14	25.59	23.72	24.70	24.17	25.14	25.59
	8H	23.91	24.83	24.37	25.27	25.73	23.91	24.83	24.37	25.27	25.73
	12H	24.05	24.87	24.53	25.35	25.81	24.05	24.87	24.53	25.35	25.81
8H	4H	23.45	24.36	23.90	24.80	25.26	23.45	24.36	23.90	24.80	25.26
	6H	24.15	24.91	24.64	25.40	25.87	24.15	24.91	24.64	25.40	25.87
	8H	24.41	25.09	24.92	25.60	26.08	24.41	25.09	24.92	25.60	26.08
	12H	24.61	25.22	25.12	25.71	26.26	24.61	25.22	25.12	25.71	26.26
12H	4H	23.48	24.30	23.96	24.78	25.25	23.48	24.30	23.96	24.78	25.25
	6H	24.20	24.89	24.71	25.39	25.88	24.20	24.89	24.71	25.39	25.88
	8H	24.52	25.12	25.02	25.61	26.17	24.52	25.12	25.02	25.61	26.17