

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: P866150

Luminaire Tested: PRLX-2002-M-927-07L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866150
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-927-07L-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 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

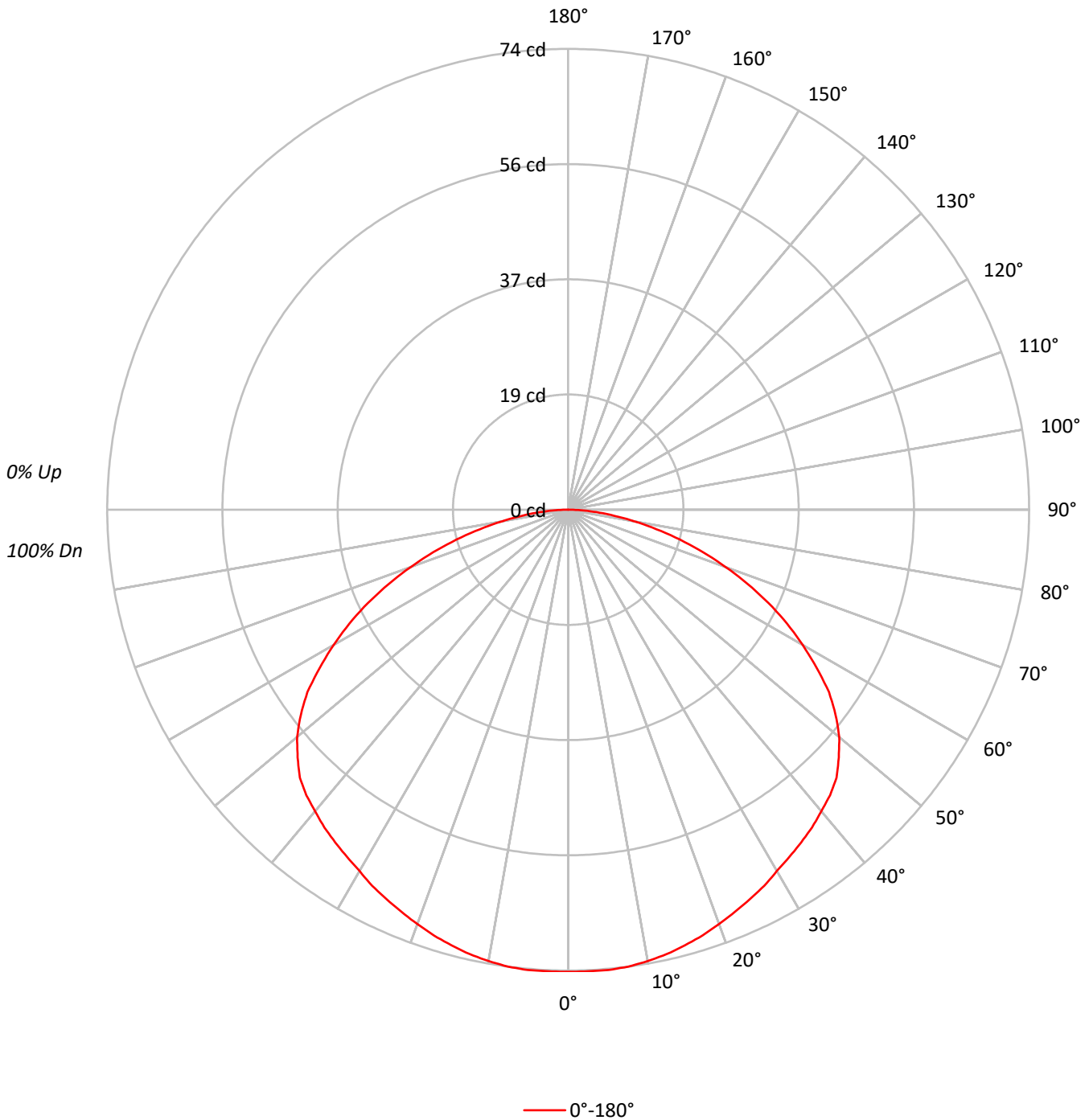
Lumens per Lamp: N/A
Luminaire Lumens: 252.4 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: P866150

CATALOG NUMBER: PRLX-2002-M-927-07L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866150

CATALOG NUMBER: PRLX-2002-M-927-07L-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	50	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°	590
5°	593
10°	595
15°	596
20°	599
25°	606
30°	615
35°	633
40°	656
45°	685
50°	703
55°	709
60°	692
65°	668
70°	626
75°	572
80°	499
85°	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 709 cd/sqm

TEST NUMBER: P866150

CATALOG NUMBER: PRLX-2002-M-927-07L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	2.8
10°-20°	20.5	8.1
20°-30°	31.9	12.6
30°-40°	40.9	16.2
40°-50°	46.8	18.5
50°-60°	45.3	18.0
60°-70°	35.0	13.9
70°-80°	19.7	7.8
80°-90°	5.3	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°	59.4	23.5
0°-40°	100.3	39.7
0°-60°	192.4	76.2
0°-90°	252.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	252.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	74	
5°	74	7
15°	72	20
25°	69	32
35°	65	41
45°	61	47
55°	51	45
65°	36	35
75°	19	20
85°	4	5
90°	0	

TEST NUMBER: P866150

CATALOG NUMBER: PRLX-2002-M-927-07L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	74.2
2.5°	74.2
5°	74.2
7.5°	74.0
10°	73.6
12.5°	73.1
15°	72.4
17.5°	71.7
20°	70.8
22.5°	69.9
25°	69.0
27.5°	68.1
30°	67.0
32.5°	66.1
35°	65.2
37.5°	64.3
40°	63.2
42.5°	62.2
45°	60.9
47.5°	58.9
50°	56.8
52.5°	54.1
55°	51.1
57.5°	47.3
60°	43.5
62.5°	39.6
65°	35.5
67.5°	31.2
70°	26.9
72.5°	22.7
75°	18.6
77.5°	14.5
80°	10.9
82.5°	7.5
85°	4.5
87.5°	2.0
90°	0.0

TEST NUMBER: P866150
 CATALOG NUMBER: PRLX-2002-M-927-07L-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	11.29	12.99	11.65	13.30	13.62	11.29	12.99	11.65	13.30	13.62
	3H	13.11	14.65	13.48	14.98	15.34	13.11	14.65	13.48	14.98	15.34
	4H	13.77	15.22	14.16	15.57	15.95	13.77	15.22	14.16	15.57	15.95
	6H	14.23	15.58	14.64	15.95	16.34	14.23	15.58	14.64	15.95	16.34
	8H	14.38	15.67	14.80	16.06	16.46	14.38	15.67	14.80	16.06	16.46
	12H	14.47	15.71	14.90	16.09	16.52	14.47	15.71	14.90	16.09	16.52
4H	2H	11.95	13.40	12.34	13.75	14.13	11.95	13.40	12.34	13.75	14.13
	3H	13.98	15.20	14.39	15.60	16.00	13.98	15.20	14.39	15.60	16.00
	4H	14.76	15.87	15.19	16.28	16.72	14.76	15.87	15.19	16.28	16.72
	6H	15.35	16.32	15.80	16.76	17.21	15.35	16.32	15.80	16.76	17.21
	8H	15.54	16.45	16.00	16.89	17.35	15.54	16.45	16.00	16.89	17.35
	12H	15.67	16.50	16.15	16.97	17.44	15.67	16.50	16.15	16.97	17.44
8H	4H	15.07	15.98	15.53	16.42	16.89	15.07	15.98	15.53	16.42	16.89
	6H	15.77	16.53	16.26	17.02	17.49	15.77	16.53	16.26	17.02	17.49
	8H	16.03	16.71	16.54	17.22	17.70	16.03	16.71	16.54	17.22	17.70
	12H	16.24	16.84	16.74	17.33	17.89	16.24	16.84	16.74	17.33	17.89
12H	4H	15.11	15.93	15.59	16.40	16.87	15.11	15.93	15.59	16.40	16.87
	6H	15.83	16.51	16.33	17.01	17.50	15.83	16.51	16.33	17.01	17.50
	8H	16.14	16.74	16.65	17.23	17.79	16.14	16.74	16.65	17.23	17.79