

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: P866278

Luminaire Tested: PRLX-2002-M-935-07L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866278
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-935-07L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

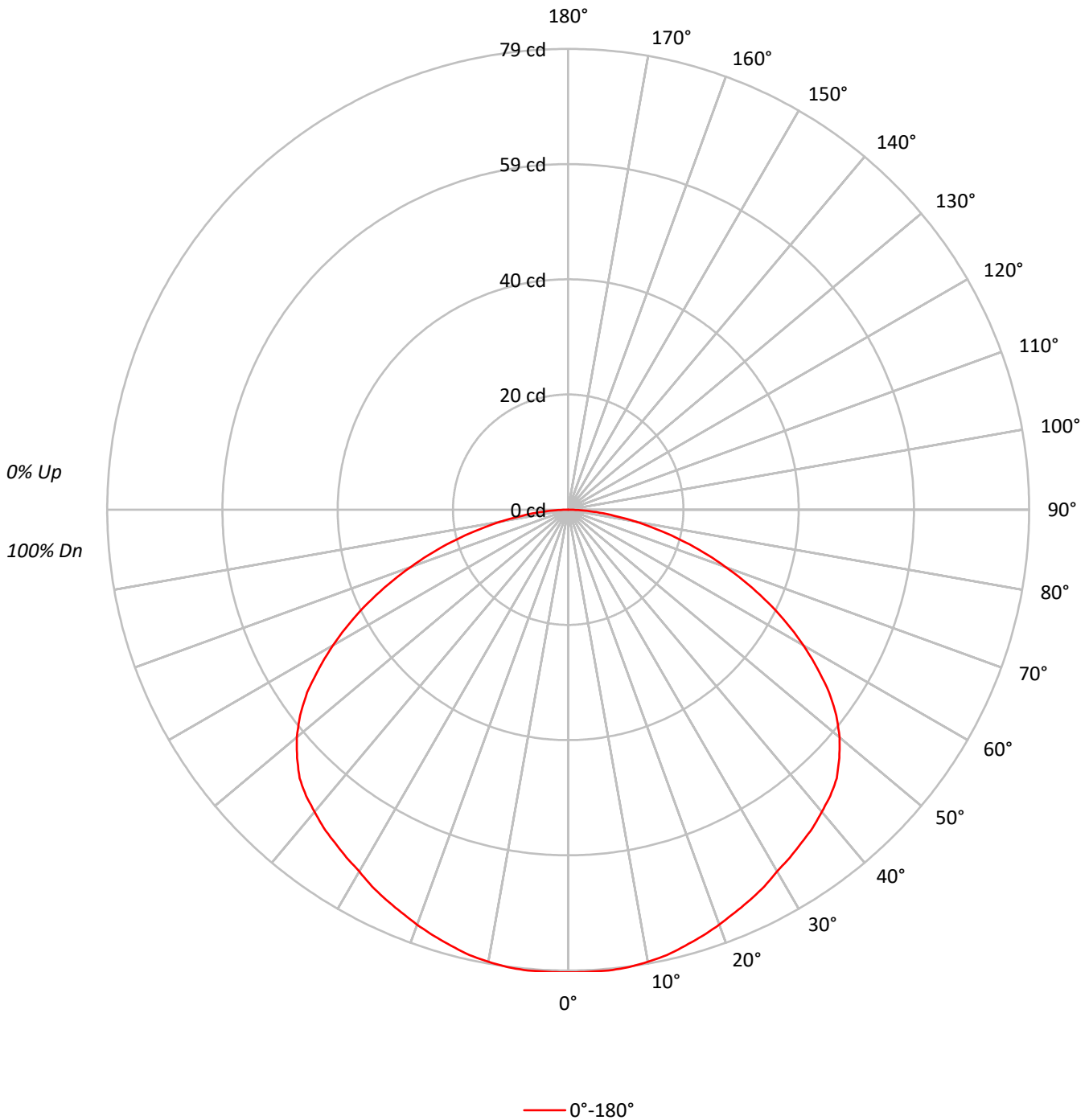
Lumens per Lamp: N/A
Luminaire Lumens: 269.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	631
5°	633
10°	636
15°	637
20°	641
25°	648
30°	658
35°	677
40°	702
45°	732
50°	751
55°	757
60°	741
65°	713
70°	668
75°	612
80°	536
85°	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	2.8
10°-20°	21.9	8.1
20°-30°	34.1	12.6
30°-40°	43.7	16.2
40°-50°	50.0	18.5
50°-60°	48.5	18.0
60°-70°	37.4	13.9
70°-80°	21.1	7.8
80°-90°	5.6	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°	63.5	23.5
0°-40°	107.2	39.7
0°-60°	205.8	76.2
0°-90°	269.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	79	
5°	79	8
15°	77	22
25°	74	34
35°	70	44
45°	65	50
55°	55	48
65°	38	37
75°	20	21
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	79.3
2.5°	79.3
5°	79.3
7.5°	79.1
10°	78.7
12.5°	78.2
15°	77.4
17.5°	76.6
20°	75.7
22.5°	74.7
25°	73.8
27.5°	72.8
30°	71.6
32.5°	70.7
35°	69.7
37.5°	68.8
40°	67.6
42.5°	66.5
45°	65.1
47.5°	63.0
50°	60.7
52.5°	57.9
55°	54.6
57.5°	50.6
60°	46.6
62.5°	42.3
65°	37.9
67.5°	33.3
70°	28.7
72.5°	24.3
75°	19.9
77.5°	15.5
80°	11.7
82.5°	8.0
85°	4.8
87.5°	2.1
90°	0.0



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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	11.52	13.23	11.89	13.54	13.86	11.52	13.23	11.89	13.54	13.86
	3H	13.34	14.88	13.71	15.21	15.57	13.34	14.88	13.71	15.21	15.57
	4H	14.00	15.46	14.40	15.80	16.18	14.00	15.46	14.40	15.80	16.18
	6H	14.46	15.82	14.87	16.18	16.57	14.46	15.82	14.87	16.18	16.57
	8H	14.61	15.90	15.03	16.29	16.69	14.61	15.90	15.03	16.29	16.69
	12H	14.70	15.94	15.13	16.33	16.75	14.70	15.94	15.13	16.33	16.75
4H	2H	12.18	13.64	12.58	13.99	14.36	12.18	13.64	12.58	13.99	14.36
	3H	14.21	15.43	14.61	15.83	16.23	14.21	15.43	14.61	15.83	16.23
	4H	14.99	16.10	15.42	16.52	16.95	14.99	16.10	15.42	16.52	16.95
	6H	15.58	16.55	16.03	16.99	17.45	15.58	16.55	16.03	16.99	17.45
	8H	15.77	16.68	16.23	17.12	17.59	15.77	16.68	16.23	17.12	17.59
	12H	15.91	16.73	16.38	17.20	17.67	15.91	16.73	16.38	17.20	17.67
8H	4H	15.30	16.21	15.76	16.66	17.12	15.30	16.21	15.76	16.66	17.12
	6H	16.01	16.77	16.50	17.25	17.73	16.01	16.77	16.50	17.25	17.73
	8H	16.26	16.95	16.77	17.45	17.93	16.26	16.95	16.77	17.45	17.93
	12H	16.47	17.07	16.97	17.56	18.12	16.47	17.07	16.97	17.56	18.12
12H	4H	15.34	16.16	15.82	16.63	17.10	15.34	16.16	15.82	16.63	17.10
	6H	16.06	16.74	16.57	17.25	17.73	16.06	16.74	16.57	17.25	17.73
	8H	16.37	16.98	16.88	17.47	18.02	16.37	16.98	16.88	17.47	18.02