

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: P865726

Luminaire Tested: PRLX-2002-S-940-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-940-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

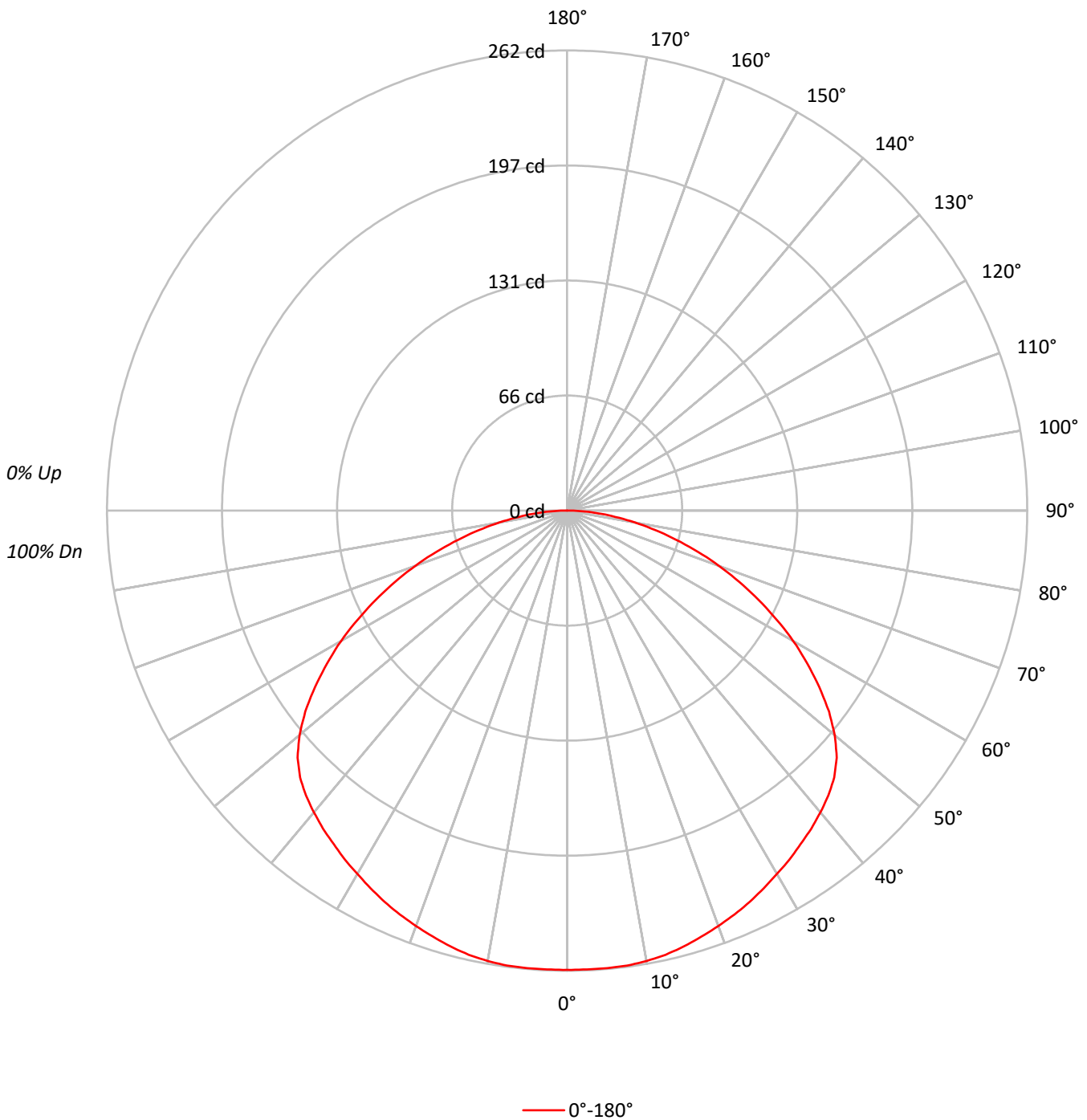
Lumens per Lamp: N/A
Luminaire Lumens: 885.7 lumens
Efficiency: N/A
Efficacy: 30.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: 0.333 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	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4912
5°	4931
10°	4967
15°	4996
20°	5031
25°	5097
30°	5180
35°	5315
40°	5500
45°	5711
50°	5810
55°	5738
60°	5590
65°	5343
70°	5047
75°	4667
80°	4230
85°	3836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	2.8
10°-20°	72.6	8.2
20°-30°	113.5	12.8
30°-40°	145.4	16.4
40°-50°	165.2	18.7
50°-60°	156.3	17.7
60°-70°	119.1	13.4
70°-80°	68.4	7.7
80°-90°	20.1	2.3
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°	211.0	23.8
0°-40°	356.5	40.2
0°-60°	678.1	76.6
0°-90°	885.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	262	
5°	262	25
15°	257	73
25°	246	114
35°	232	145
45°	215	165
55°	175	156
65°	120	119
75°	64	68
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	261.5
2.5°	261.5
5°	261.5
7.5°	261.3
10°	260.4
12.5°	259.0
15°	256.9
17.5°	254.3
20°	251.7
22.5°	248.9
25°	245.9
27.5°	242.4
30°	238.8
32.5°	235.6
35°	231.8
37.5°	228.3
40°	224.3
42.5°	220.1
45°	215.0
47.5°	208.2
50°	198.8
52.5°	187.9
55°	175.2
57.5°	162.1
60°	148.8
62.5°	134.5
65°	120.2
67.5°	106.2
70°	91.9
72.5°	78.1
75°	64.3
77.5°	51.5
80°	39.1
82.5°	27.6
85°	17.8
87.5°	9.1
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	18.48	20.17	18.84	20.49	20.80	18.48	20.17	18.84	20.49	20.80
	3H	20.28	21.82	20.66	22.15	22.50	20.28	21.82	20.66	22.15	22.50
	4H	20.95	22.40	21.35	22.75	23.13	20.95	22.40	21.35	22.75	23.13
	6H	21.46	22.80	21.87	23.17	23.56	21.46	22.80	21.87	23.17	23.56
	8H	21.62	22.91	22.04	23.30	23.70	21.62	22.91	22.04	23.30	23.70
	12H	21.74	22.98	22.17	23.36	23.79	21.74	22.98	22.17	23.36	23.79
4H	2H	19.12	20.57	19.52	20.92	21.29	19.12	20.57	19.52	20.92	21.29
	3H	21.14	22.37	21.55	22.76	23.16	21.14	22.37	21.55	22.76	23.16
	4H	21.94	23.05	22.37	23.46	23.90	21.94	23.05	22.37	23.46	23.90
	6H	22.58	23.55	23.03	23.99	24.44	22.58	23.55	23.03	23.99	24.44
	8H	22.79	23.70	23.25	24.14	24.61	22.79	23.70	23.25	24.14	24.61
	12H	22.96	23.78	23.44	24.26	24.72	22.96	23.78	23.44	24.26	24.72
8H	4H	22.27	23.18	22.73	23.62	24.08	22.27	23.18	22.73	23.62	24.08
	6H	23.02	23.78	23.52	24.27	24.74	23.02	23.78	23.52	24.27	24.74
	8H	23.31	24.00	23.82	24.50	24.98	23.31	24.00	23.82	24.50	24.98
	12H	23.56	24.17	24.07	24.66	25.22	23.56	24.17	24.07	24.66	25.22
12H	4H	22.31	23.13	22.78	23.60	24.07	22.31	23.13	22.78	23.60	24.07
	6H	23.09	23.77	23.59	24.27	24.76	23.09	23.77	23.59	24.27	24.76
	8H	23.44	24.04	23.94	24.53	25.09	23.44	24.04	23.94	24.53	25.09