

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: P866358

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866358
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-940-25L-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 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

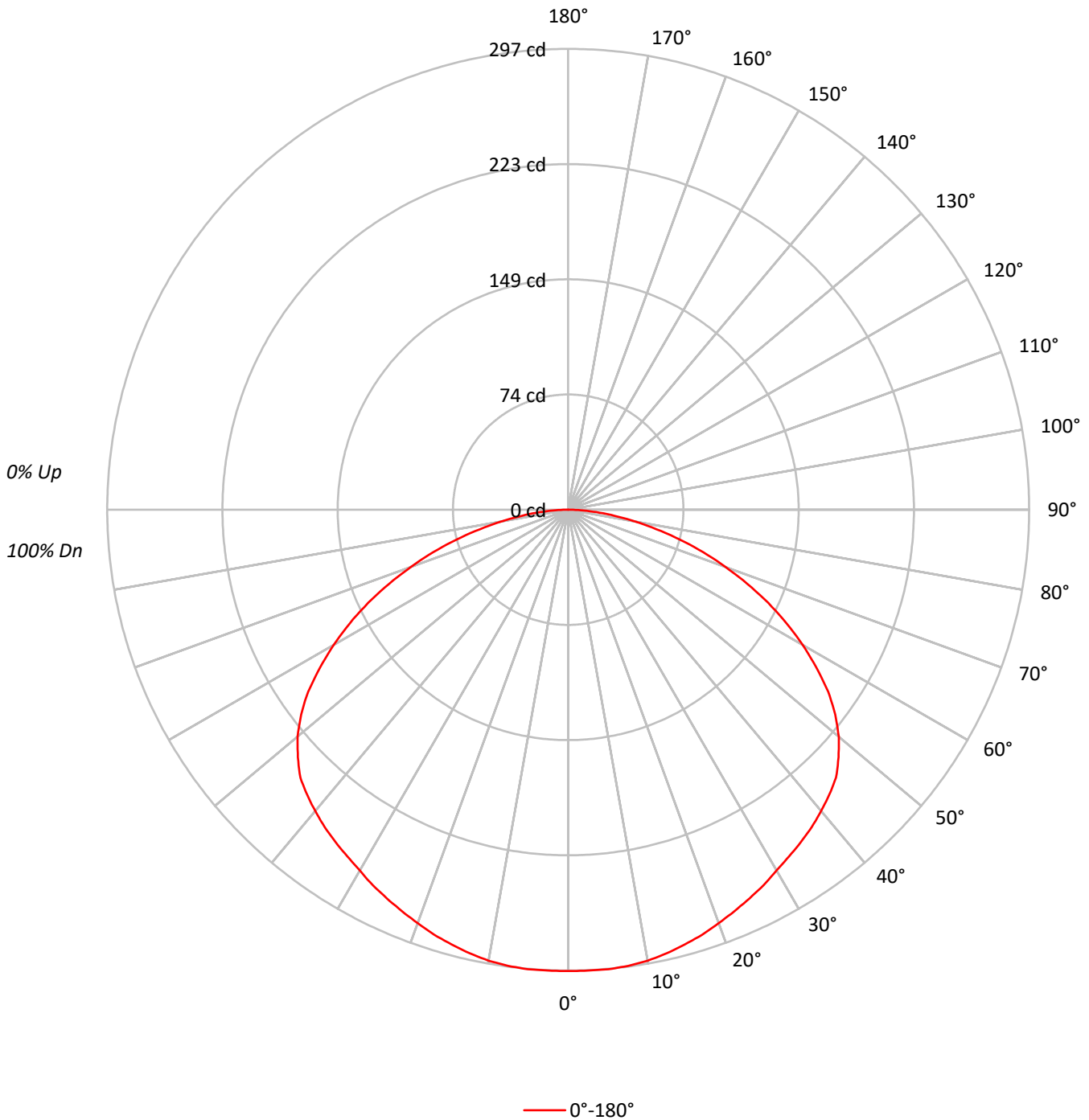
Lumens per Lamp: N/A
Luminaire Lumens: 1011.7 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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

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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	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°	2365
5°	2374
10°	2384
15°	2389
20°	2401
25°	2426
30°	2467
35°	2539
40°	2633
45°	2746
50°	2817
55°	2838
60°	2777
65°	2677
70°	2505
75°	2296
80°	2007
85°	1643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	2.8
10°-20°	82.0	8.1
20°-30°	127.7	12.6
30°-40°	164.0	16.2
40°-50°	187.5	18.5
50°-60°	181.7	18.0
60°-70°	140.3	13.9
70°-80°	79.1	7.8
80°-90°	21.2	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°	238.0	23.5
0°-40°	402.0	39.7
0°-60°	771.2	76.2
0°-90°	1011.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	297	
5°	297	28
15°	290	82
25°	276	128
35°	261	164
45°	244	188
55°	205	182
65°	142	140
75°	75	79
85°	18	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	297.3
2.5°	297.3
5°	297.3
7.5°	296.5
10°	295.1
12.5°	292.9
15°	290.1
17.5°	287.2
20°	283.6
22.5°	280.0
25°	276.4
27.5°	272.8
30°	268.5
32.5°	264.9
35°	261.4
37.5°	257.8
40°	253.5
42.5°	249.1
45°	244.1
47.5°	236.2
50°	227.6
52.5°	216.8
55°	204.6
57.5°	189.6
60°	174.5
62.5°	158.7
65°	142.2
67.5°	124.9
70°	107.7
72.5°	91.2
75°	74.7
77.5°	58.2
80°	43.8
82.5°	30.2
85°	18.0
87.5°	7.9
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	16.11	17.81	16.48	18.13	18.44	16.11	17.81	16.48	18.13	18.44
	3H	17.93	19.47	18.30	19.80	20.16	17.93	19.47	18.30	19.80	20.16
	4H	18.59	20.05	18.99	20.40	20.77	18.59	20.05	18.99	20.40	20.77
	6H	19.06	20.41	19.47	20.77	21.16	19.06	20.41	19.47	20.77	21.16
	8H	19.20	20.50	19.63	20.89	21.28	19.20	20.50	19.63	20.89	21.28
	12H	19.30	20.54	19.73	20.92	21.35	19.30	20.54	19.73	20.92	21.35
4H	2H	16.77	18.23	17.17	18.58	18.95	16.77	18.23	17.17	18.58	18.95
	3H	18.80	20.03	19.21	20.42	20.82	18.80	20.03	19.21	20.42	20.82
	4H	19.59	20.70	20.02	21.11	21.54	19.59	20.70	20.02	21.11	21.54
	6H	20.17	21.15	20.63	21.59	22.04	20.17	21.15	20.63	21.59	22.04
	8H	20.37	21.28	20.82	21.72	22.18	20.37	21.28	20.82	21.72	22.18
	12H	20.50	21.32	20.98	21.80	22.27	20.50	21.32	20.98	21.80	22.27
8H	4H	19.90	20.81	20.36	21.25	21.71	19.90	20.81	20.36	21.25	21.71
	6H	20.60	21.36	21.09	21.85	22.32	20.60	21.36	21.09	21.85	22.32
	8H	20.86	21.54	21.37	22.05	22.53	20.86	21.54	21.37	22.05	22.53
	12H	21.07	21.67	21.57	22.16	22.72	21.07	21.67	21.57	22.16	22.72
12H	4H	19.93	20.76	20.41	21.23	21.70	19.93	20.76	20.41	21.23	21.70
	6H	20.66	21.34	21.16	21.84	22.33	20.66	21.34	21.16	21.84	22.33
	8H	20.97	21.58	21.48	22.06	22.62	20.97	21.58	21.48	22.06	22.62