

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: P865702

Luminaire Tested: PRLX-2002-S-940-10L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865702
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-940-10L-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 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

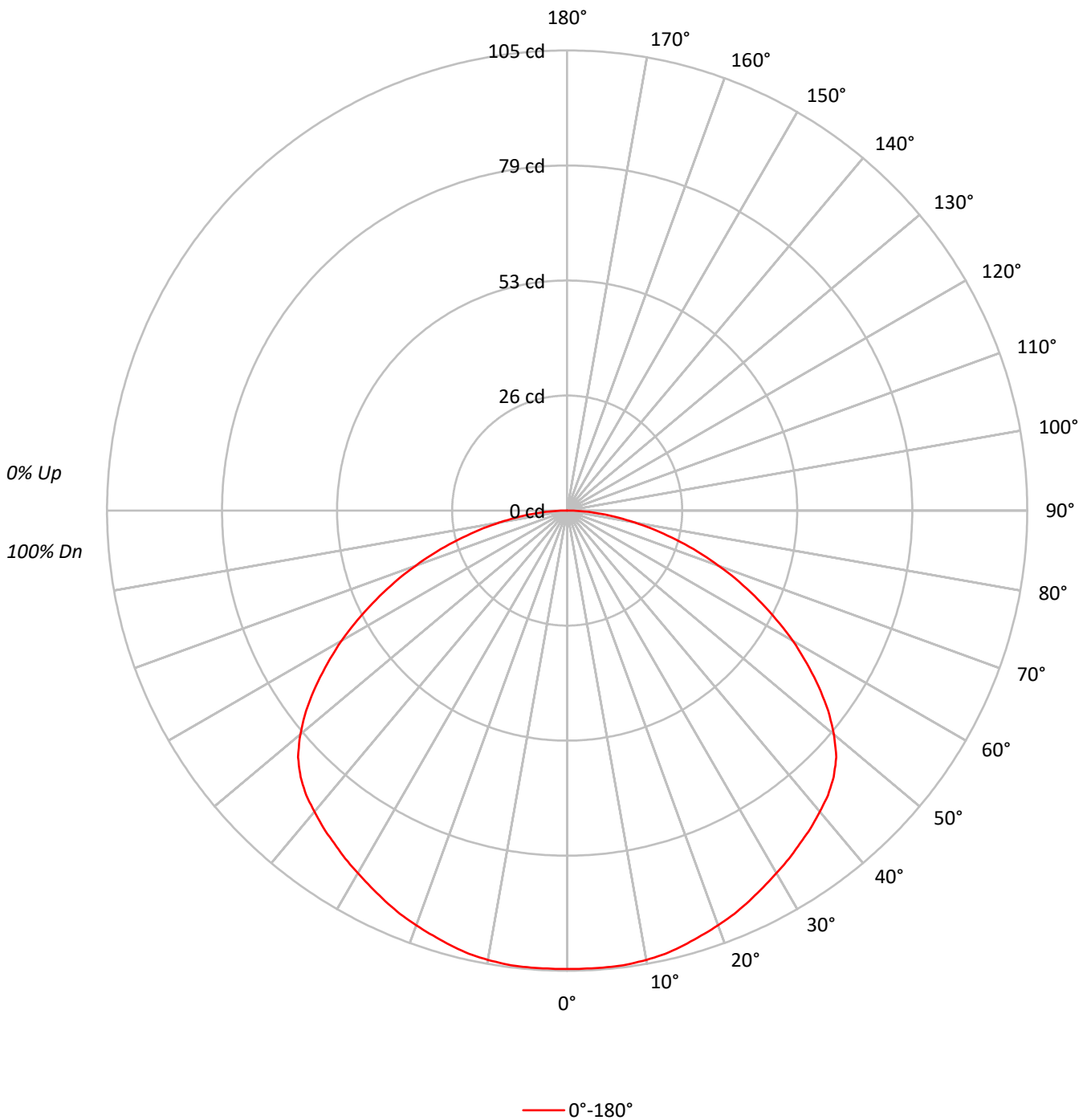
Lumens per Lamp: N/A
Luminaire Lumens: 354.2 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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°	1965
5°	1972
10°	1986
15°	1997
20°	2013
25°	2037
30°	2071
35°	2126
40°	2200
45°	2285
50°	2323
55°	2296
60°	2235
65°	2138
70°	2021
75°	1865
80°	1688
85°	1530

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.8
10°-20°	29.0	8.2
20°-30°	45.4	12.8
30°-40°	58.2	16.4
40°-50°	66.1	18.7
50°-60°	62.5	17.6
60°-70°	47.6	13.4
70°-80°	27.4	7.7
80°-90°	8.0	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°	84.4	23.8
0°-40°	142.6	40.2
0°-60°	271.2	76.6
0°-90°	354.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	105	
5°	105	10
15°	103	29
25°	98	45
35°	93	58
45°	86	66
55°	70	63
65°	48	48
75°	26	27
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	104.6
2.5°	104.6
5°	104.6
7.5°	104.5
10°	104.1
12.5°	103.6
15°	102.7
17.5°	101.7
20°	100.7
22.5°	99.6
25°	98.3
27.5°	96.9
30°	95.5
32.5°	94.2
35°	92.7
37.5°	91.3
40°	89.7
42.5°	88.1
45°	86.0
47.5°	83.3
50°	79.5
52.5°	75.1
55°	70.1
57.5°	64.8
60°	59.5
62.5°	53.8
65°	48.1
67.5°	42.5
70°	36.8
72.5°	31.3
75°	25.7
77.5°	20.6
80°	15.6
82.5°	11.0
85°	7.1
87.5°	3.6
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	15.29	16.99	15.65	17.30	17.61	15.29	16.99	15.65	17.30	17.61
	3H	17.10	18.64	17.47	18.96	19.32	17.10	18.64	17.47	18.96	19.32
	4H	17.77	19.22	18.17	19.57	19.94	17.77	19.22	18.17	19.57	19.94
	6H	18.27	19.62	18.68	19.98	20.37	18.27	19.62	18.68	19.98	20.37
	8H	18.44	19.72	18.86	20.11	20.51	18.44	19.72	18.86	20.11	20.51
	12H	18.55	19.79	18.98	20.17	20.60	18.55	19.79	18.98	20.17	20.60
4H	2H	15.93	17.38	16.33	17.73	18.11	15.93	17.38	16.33	17.73	18.11
	3H	17.96	19.18	18.37	19.58	19.98	17.96	19.18	18.37	19.58	19.98
	4H	18.76	19.87	19.19	20.28	20.72	18.76	19.87	19.19	20.28	20.72
	6H	19.39	20.37	19.85	20.80	21.26	19.39	20.37	19.85	20.80	21.26
	8H	19.61	20.52	20.07	20.96	21.42	19.61	20.52	20.07	20.96	21.42
	12H	19.78	20.60	20.26	21.07	21.54	19.78	20.60	20.26	21.07	21.54
8H	4H	19.08	19.99	19.54	20.44	20.90	19.08	19.99	19.54	20.44	20.90
	6H	19.84	20.60	20.33	21.08	21.56	19.84	20.60	20.33	21.08	21.56
	8H	20.13	20.81	20.63	21.31	21.80	20.13	20.81	20.63	21.31	21.80
	12H	20.38	20.98	20.88	21.47	22.03	20.38	20.98	20.88	21.47	22.03
12H	4H	19.12	19.94	19.60	20.42	20.89	19.12	19.94	19.60	20.42	20.89
	6H	19.90	20.58	20.41	21.09	21.57	19.90	20.58	20.41	21.09	21.57
	8H	20.25	20.85	20.76	21.34	21.90	20.25	20.85	20.76	21.34	21.90