

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: P866286

Luminaire Tested: PRLX-2002-M-935-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866286
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-935-15L-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 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

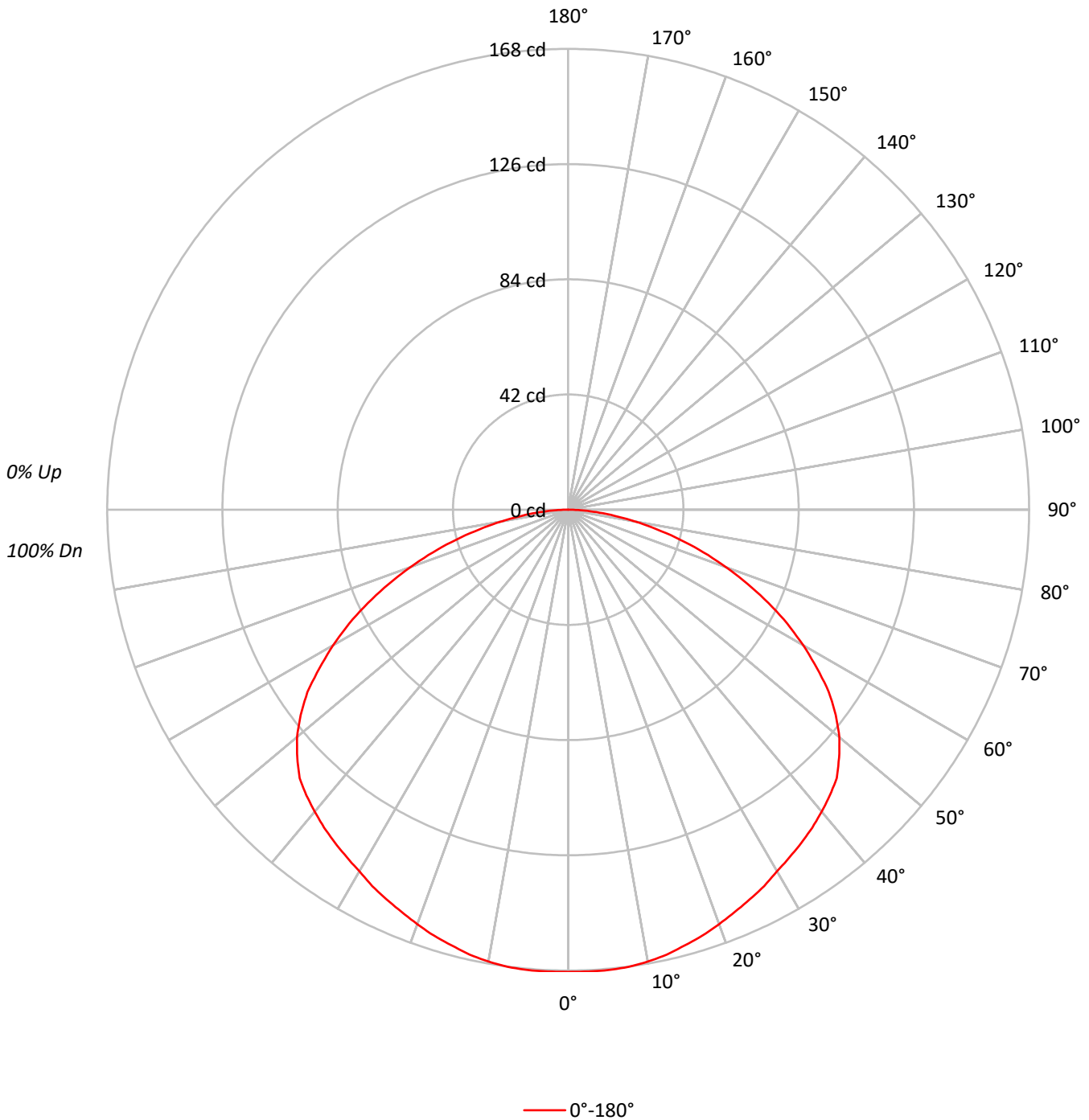
Lumens per Lamp: N/A
Luminaire Lumens: 573.5 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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°	1341
5°	1346
10°	1352
15°	1354
20°	1361
25°	1376
30°	1398
35°	1439
40°	1492
45°	1557
50°	1597
55°	1609
60°	1574
65°	1517
70°	1421
75°	1300
80°	1136
85°	931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	2.8
10°-20°	46.5	8.1
20°-30°	72.4	12.6
30°-40°	92.9	16.2
40°-50°	106.3	18.5
50°-60°	103.0	18.0
60°-70°	79.5	13.9
70°-80°	44.8	7.8
80°-90°	12.0	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°	134.9	23.5
0°-40°	227.9	39.7
0°-60°	437.2	76.2
0°-90°	573.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	168	
5°	168	16
15°	164	46
25°	157	72
35°	148	93
45°	138	106
55°	116	103
65°	81	80
75°	42	45
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	168.5
2.5°	168.5
5°	168.5
7.5°	168.1
10°	167.3
12.5°	166.1
15°	164.4
17.5°	162.8
20°	160.8
22.5°	158.7
25°	156.7
27.5°	154.7
30°	152.2
32.5°	150.2
35°	148.2
37.5°	146.1
40°	143.7
42.5°	141.2
45°	138.4
47.5°	133.9
50°	129.0
52.5°	122.9
55°	116.0
57.5°	107.5
60°	98.9
62.5°	90.0
65°	80.6
67.5°	70.8
70°	61.1
72.5°	51.7
75°	42.3
77.5°	33.0
80°	24.8
82.5°	17.1
85°	10.2
87.5°	4.5
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	14.14	15.84	14.51	16.16	16.47	14.14	15.84	14.51	16.16	16.47
	3H	15.96	17.50	16.33	17.83	18.19	15.96	17.50	16.33	17.83	18.19
	4H	16.62	18.08	17.02	18.42	18.80	16.62	18.08	17.02	18.42	18.80
	6H	17.08	18.44	17.49	18.80	19.19	17.08	18.44	17.49	18.80	19.19
	8H	17.23	18.53	17.65	18.91	19.31	17.23	18.53	17.65	18.91	19.31
	12H	17.33	18.57	17.75	18.95	19.38	17.33	18.57	17.75	18.95	19.38
4H	2H	14.80	16.26	15.20	16.60	16.98	14.80	16.26	15.20	16.60	16.98
	3H	16.83	18.05	17.24	18.45	18.85	16.83	18.05	17.24	18.45	18.85
	4H	17.61	18.73	18.04	19.14	19.57	17.61	18.73	18.04	19.14	19.57
	6H	18.20	19.18	18.65	19.61	20.07	18.20	19.18	18.65	19.61	20.07
	8H	18.39	19.31	18.85	19.75	20.21	18.39	19.31	18.85	19.75	20.21
	12H	18.53	19.35	19.01	19.83	20.29	18.53	19.35	19.01	19.83	20.29
8H	4H	17.93	18.84	18.38	19.28	19.74	17.93	18.84	18.38	19.28	19.74
	6H	18.63	19.39	19.12	19.87	20.35	18.63	19.39	19.12	19.87	20.35
	8H	18.89	19.57	19.39	20.07	20.56	18.89	19.57	19.39	20.07	20.56
	12H	19.09	19.70	19.60	20.18	20.74	19.09	19.70	19.60	20.18	20.74
12H	4H	17.96	18.78	18.44	19.26	19.72	17.96	18.78	18.44	19.26	19.72
	6H	18.68	19.37	19.19	19.87	20.35	18.68	19.37	19.19	19.87	20.35
	8H	19.00	19.60	19.50	20.09	20.65	19.00	19.60	19.50	20.09	20.65