

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: P866221

Luminaire Tested: PRLX-2002-M-930-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

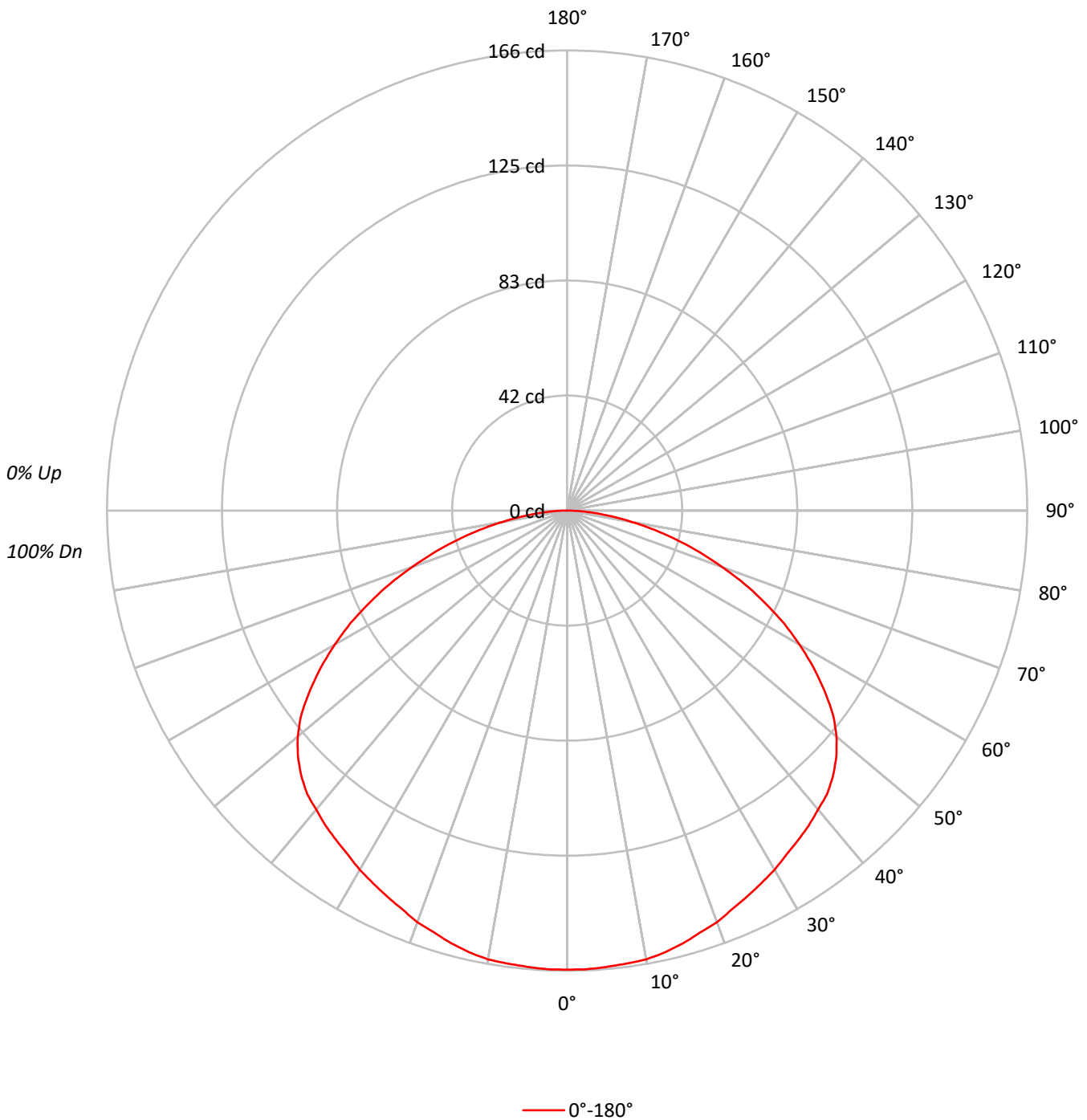
Lumens per Lamp: N/A
Luminaire Lumens: 561.8 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	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°	1317
5°	1319
10°	1328
15°	1331
20°	1338
25°	1348
30°	1374
35°	1410
40°	1462
45°	1526
50°	1571
55°	1572
60°	1542
65°	1480
70°	1382
75°	1263
80°	1095
85°	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	2.8
10°-20°	45.7	8.1
20°-30°	71.0	12.6
30°-40°	91.1	16.2
40°-50°	104.4	18.6
50°-60°	101.0	18.0
60°-70°	77.8	13.8
70°-80°	43.6	7.8
80°-90°	11.5	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°	132.4	23.6
0°-40°	223.5	39.8
0°-60°	428.9	76.3
0°-90°	561.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	166	
5°	165	16
15°	162	46
25°	154	71
35°	145	91
45°	136	104
55°	113	101
65°	79	78
75°	41	44
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	165.6
2.5°	165.6
5°	165.2
7.5°	164.8
10°	164.4
12.5°	163.2
15°	161.6
17.5°	159.6
20°	158.0
22.5°	155.6
25°	153.6
27.5°	151.6
30°	149.6
32.5°	147.2
35°	145.2
37.5°	143.2
40°	140.8
42.5°	138.8
45°	135.6
47.5°	131.7
50°	126.9
52.5°	120.9
55°	113.3
57.5°	105.3
60°	96.9
62.5°	88.2
65°	78.6
67.5°	69.4
70°	59.4
72.5°	50.3
75°	41.1
77.5°	32.3
80°	23.9
82.5°	16.4
85°	9.6
87.5°	4.4
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	14.07	15.77	14.44	16.09	16.40	14.07	15.77	14.44	16.09	16.40
	3H	15.88	17.42	16.26	17.75	18.11	15.88	17.42	16.26	17.75	18.11
	4H	16.53	17.99	16.93	18.34	18.71	16.53	17.99	16.93	18.34	18.71
	6H	16.99	18.35	17.40	18.71	19.10	16.99	18.35	17.40	18.71	19.10
	8H	17.13	18.43	17.56	18.82	19.21	17.13	18.43	17.56	18.82	19.21
	12H	17.22	18.46	17.65	18.84	19.27	17.22	18.46	17.65	18.84	19.27
4H	2H	14.72	16.18	15.12	16.53	16.90	14.72	16.18	15.12	16.53	16.90
	3H	16.74	17.97	17.15	18.36	18.76	16.74	17.97	17.15	18.36	18.76
	4H	17.52	18.63	17.95	19.04	19.48	17.52	18.63	17.95	19.04	19.48
	6H	18.10	19.08	18.56	19.52	19.97	18.10	19.08	18.56	19.52	19.97
	8H	18.29	19.20	18.75	19.64	20.10	18.29	19.20	18.75	19.64	20.10
	12H	18.42	19.24	18.90	19.71	20.18	18.42	19.24	18.90	19.71	20.18
8H	4H	17.83	18.74	18.29	19.18	19.64	17.83	18.74	18.29	19.18	19.64
	6H	18.53	19.28	19.02	19.77	20.24	18.53	19.28	19.02	19.77	20.24
	8H	18.78	19.46	19.28	19.96	20.45	18.78	19.46	19.28	19.96	20.45
	12H	18.97	19.57	19.47	20.06	20.62	18.97	19.57	19.47	20.06	20.62
12H	4H	17.86	18.68	18.34	19.16	19.63	17.86	18.68	18.34	19.16	19.63
	6H	18.58	19.26	19.08	19.76	20.25	18.58	19.26	19.08	19.76	20.25
	8H	18.88	19.49	19.39	19.97	20.53	18.88	19.49	19.39	19.97	20.53