

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: P866349

Luminaire Tested: PRLX-2002-M-940-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866349
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: Prenalux
Catalog Number: PRLX-2002-M-940-15L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

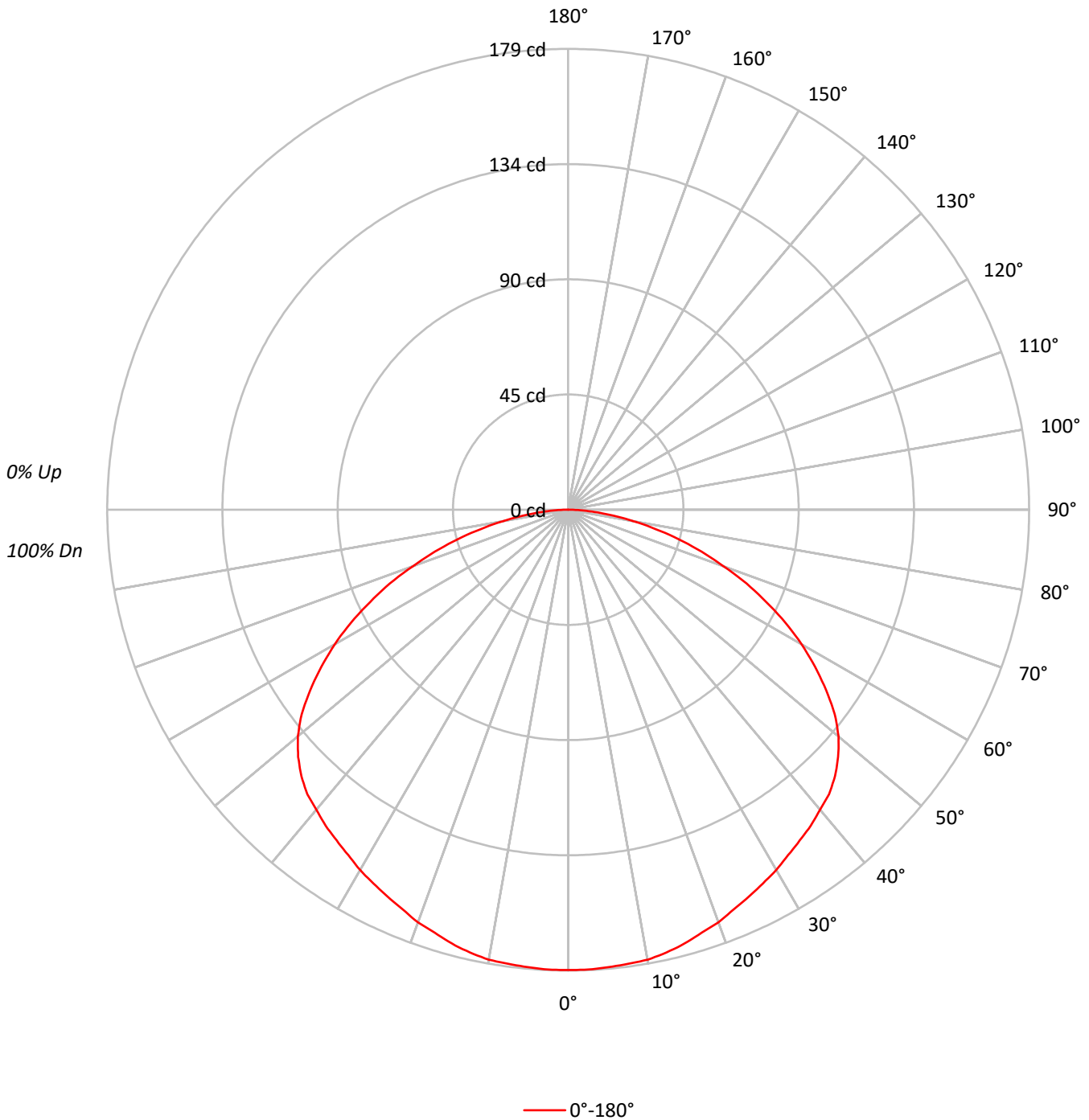
Lumens per Lamp: N/A
Luminaire Lumens: 606.7 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	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°	1422
5°	1425
10°	1434
15°	1437
20°	1444
25°	1456
30°	1485
35°	1523
40°	1580
45°	1648
50°	1696
55°	1696
60°	1666
65°	1598
70°	1493
75°	1365
80°	1182
85°	940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	2.8
10°-20°	49.3	8.1
20°-30°	76.7	12.6
30°-40°	98.4	16.2
40°-50°	112.7	18.6
50°-60°	109.0	18.0
60°-70°	84.0	13.8
70°-80°	47.1	7.8
80°-90°	12.4	2.0
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°	143.0	23.6
0°-40°	241.4	39.8
0°-60°	463.2	76.3
0°-90°	606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	179	
5°	178	17
15°	174	49
25°	166	77
35°	157	98
45°	146	113
55°	122	109
65°	85	84
75°	44	47
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	178.8
2.5°	178.8
5°	178.4
7.5°	177.9
10°	177.5
12.5°	176.2
15°	174.5
17.5°	172.3
20°	170.6
22.5°	168.0
25°	165.9
27.5°	163.7
30°	161.6
32.5°	159.0
35°	156.8
37.5°	154.7
40°	152.1
42.5°	149.9
45°	146.5
47.5°	142.2
50°	137.0
52.5°	130.5
55°	122.3
57.5°	113.7
60°	104.7
62.5°	95.2
65°	84.9
67.5°	75.0
70°	64.2
72.5°	54.3
75°	44.4
77.5°	34.9
80°	25.8
82.5°	17.7
85°	10.3
87.5°	4.7
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	14.34	16.04	14.70	16.35	16.67	14.34	16.04	14.70	16.35	16.67
	3H	16.15	17.69	16.52	18.02	18.38	16.15	17.69	16.52	18.02	18.38
	4H	16.80	18.26	17.20	18.61	18.98	16.80	18.26	17.20	18.61	18.98
	6H	17.26	18.62	17.67	18.98	19.37	17.26	18.62	17.67	18.98	19.37
	8H	17.40	18.70	17.83	19.09	19.48	17.40	18.70	17.83	19.09	19.48
	12H	17.49	18.73	17.92	19.11	19.54	17.49	18.73	17.92	19.11	19.54
4H	2H	14.99	16.45	15.39	16.79	17.17	14.99	16.45	15.39	16.79	17.17
	3H	17.01	18.24	17.42	18.63	19.03	17.01	18.24	17.42	18.63	19.03
	4H	17.79	18.90	18.22	19.31	19.75	17.79	18.90	18.22	19.31	19.75
	6H	18.37	19.34	18.82	19.78	20.24	18.37	19.34	18.82	19.78	20.24
	8H	18.56	19.47	19.01	19.91	20.37	18.56	19.47	19.01	19.91	20.37
	12H	18.68	19.51	19.16	19.98	20.45	18.68	19.51	19.16	19.98	20.45
8H	4H	18.10	19.01	18.56	19.45	19.91	18.10	19.01	18.56	19.45	19.91
	6H	18.79	19.55	19.29	20.04	20.51	18.79	19.55	19.29	20.04	20.51
	8H	19.04	19.73	19.55	20.23	20.71	19.04	19.73	19.55	20.23	20.71
	12H	19.24	19.84	19.74	20.33	20.89	19.24	19.84	19.74	20.33	20.89
12H	4H	18.13	18.95	18.61	19.43	19.89	18.13	18.95	18.61	19.43	19.89
	6H	18.85	19.53	19.35	20.03	20.52	18.85	19.53	19.35	20.03	20.52
	8H	19.15	19.75	19.66	20.24	20.80	19.15	19.75	19.66	20.24	20.80