

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: P866093

Luminaire Tested: PRLX-2001-M-940-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

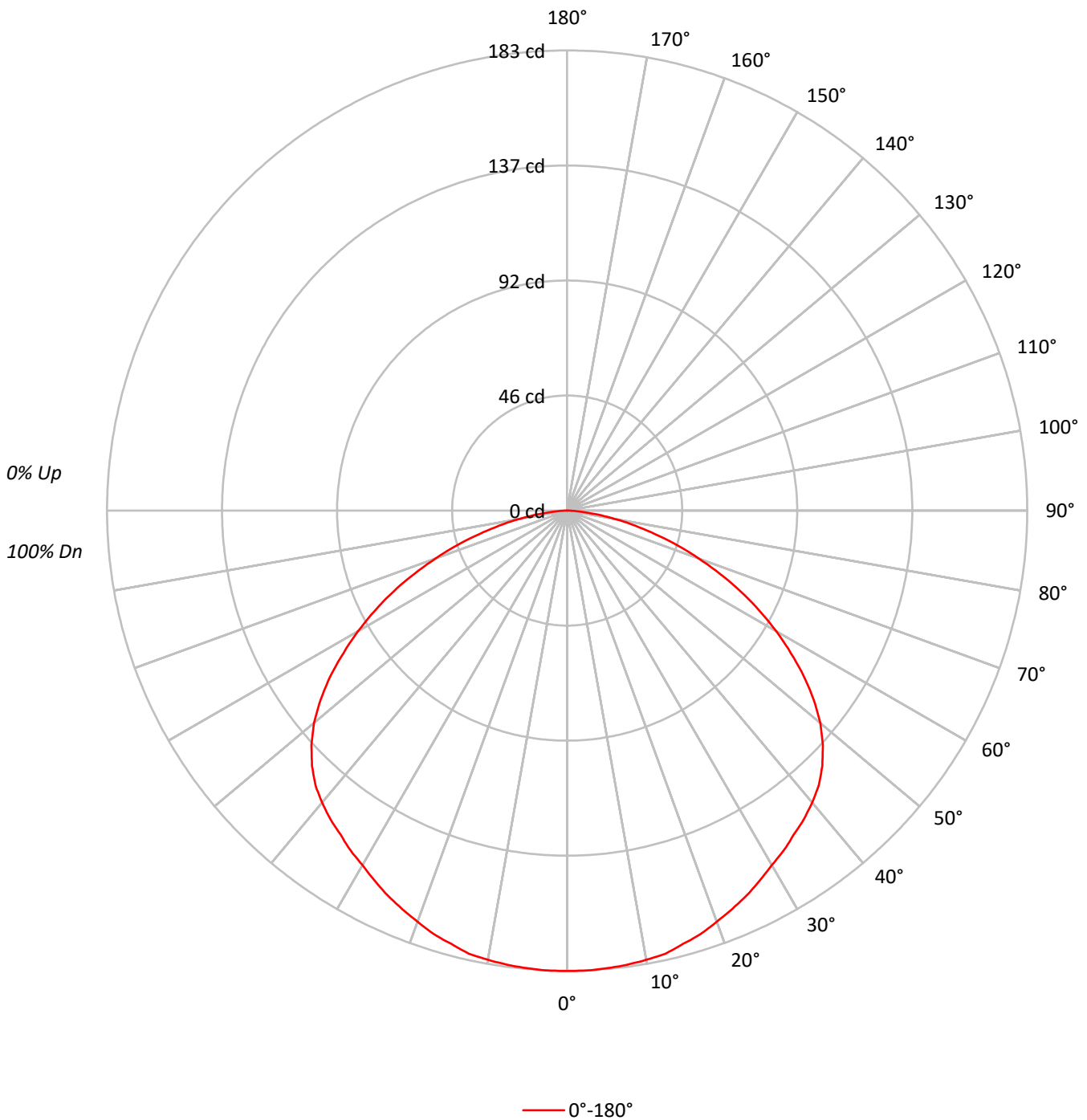
Lumens per Lamp: N/A
Luminaire Lumens: 579.3 lumens
Efficiency: N/A
Efficacy: 41.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1554
5°	1556
10°	1563
15°	1567
20°	1571
25°	1581
30°	1595
35°	1629
40°	1679
45°	1722
50°	1735
55°	1701
60°	1631
65°	1532
70°	1380
75°	1187
80°	948
85°	584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	3.0
10°-20°	50.4	8.7
20°-30°	77.9	13.5
30°-40°	98.7	17.0
40°-50°	110.4	19.0
50°-60°	102.4	17.7
60°-70°	75.2	13.0
70°-80°	38.8	6.7
80°-90°	8.0	1.4
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°	145.8	25.2
0°-40°	244.5	42.2
0°-60°	457.2	78.9
0°-90°	579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	183	
5°	183	17
15°	178	50
25°	169	78
35°	157	99
45°	144	110
55°	115	102
65°	76	75
75°	36	39
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	183.1
2.5°	183.1
5°	182.7
7.5°	182.2
10°	181.4
12.5°	180.5
15°	178.4
17.5°	176.6
20°	174.0
22.5°	171.5
25°	168.9
27.5°	165.9
30°	162.8
32.5°	160.3
35°	157.2
37.5°	154.7
40°	151.6
42.5°	148.2
45°	143.5
47.5°	137.9
50°	131.4
52.5°	123.6
55°	115.0
57.5°	105.5
60°	96.1
62.5°	86.2
65°	76.3
67.5°	65.9
70°	55.6
72.5°	46.1
75°	36.2
77.5°	27.6
80°	19.4
82.5°	12.1
85°	6.0
87.5°	1.7
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	14.24	15.91	14.61	16.22	16.54	14.24	15.91	14.61	16.22	16.54
	3H	15.88	17.39	16.26	17.72	18.08	15.88	17.39	16.26	17.72	18.08
	4H	16.43	17.85	16.83	18.20	18.57	16.43	17.85	16.83	18.20	18.57
	6H	16.77	18.09	17.18	18.45	18.84	16.77	18.09	17.18	18.45	18.84
	8H	16.85	18.11	17.28	18.50	18.90	16.85	18.11	17.28	18.50	18.90
	12H	16.89	18.09	17.32	18.47	18.90	16.89	18.09	17.32	18.47	18.90
4H	2H	14.85	16.27	15.25	16.62	16.99	14.85	16.27	15.25	16.62	16.99
	3H	16.69	17.88	17.10	18.28	18.68	16.69	17.88	17.10	18.28	18.68
	4H	17.35	18.42	17.78	18.83	19.27	17.35	18.42	17.78	18.83	19.27
	6H	17.79	18.73	18.25	19.17	19.63	17.79	18.73	18.25	19.17	19.63
	8H	17.90	18.78	18.36	19.22	19.69	17.90	18.78	18.36	19.22	19.69
	12H	17.96	18.75	18.44	19.23	19.70	17.96	18.75	18.44	19.23	19.70
8H	4H	17.60	18.47	18.06	18.92	19.38	17.60	18.47	18.06	18.92	19.38
	6H	18.13	18.86	18.62	19.34	19.82	18.13	18.86	18.62	19.34	19.82
	8H	18.29	18.94	18.79	19.44	19.93	18.29	18.94	18.79	19.44	19.93
	12H	18.38	18.96	18.89	19.45	20.01	18.38	18.96	18.89	19.45	20.01
12H	4H	17.62	18.40	18.09	18.88	19.35	17.62	18.40	18.09	18.88	19.35
	6H	18.15	18.81	18.66	19.31	19.80	18.15	18.81	18.66	19.31	19.80
	8H	18.35	18.93	18.86	19.42	19.98	18.35	18.93	18.86	19.42	19.98