

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: P865553

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

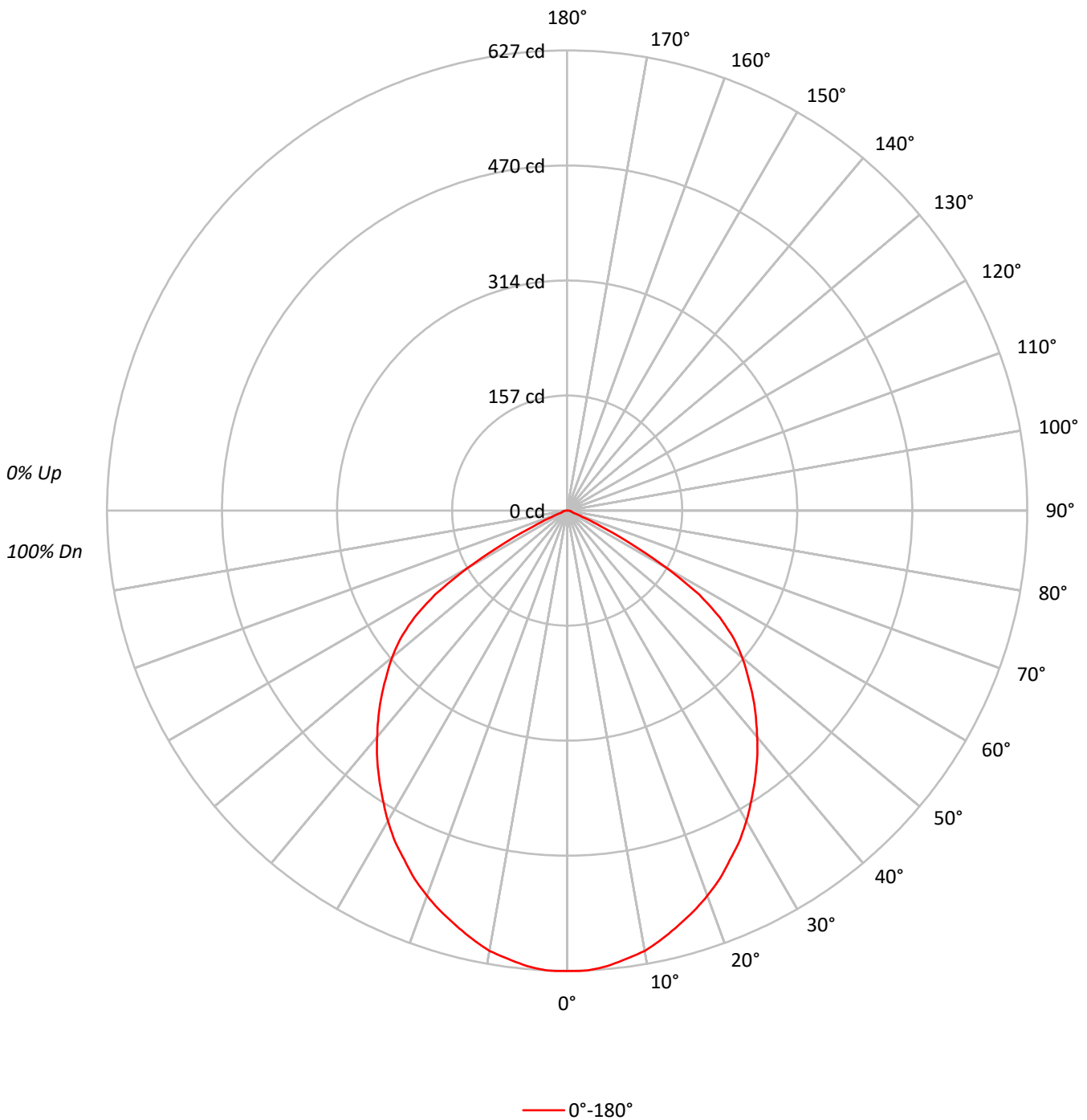
Lumens per Lamp: N/A
Luminaire Lumens: 1314.5 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10233
5°	10203
10°	10089
15°	9883
20°	9696
25°	9448
30°	9200
35°	8888
40°	8576
45°	8255
50°	7907
55°	7226
60°	5128
65°	1949
70°	467
75°	441
80°	526
85°	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.5
10°-20°	165.1	12.6
20°-30°	242.0	18.4
30°-40°	279.3	21.2
40°-50°	275.8	21.0
50°-60°	220.4	16.8
60°-70°	62.3	4.7
70°-80°	7.2	0.5
80°-90°	3.4	0.3
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°	466.1	35.5
0°-40°	745.4	56.7
0°-60°	1241.6	94.5
0°-90°	1314.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	627	
5°	623	59
15°	585	165
25°	525	242
35°	446	279
45°	358	276
55°	254	220
65°	50	62
75°	7	7
85°	4	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	627.4
2.5°	627.4
5°	623.2
7.5°	616.2
10°	609.2
12.5°	597.9
15°	585.3
17.5°	572.7
20°	558.6
22.5°	543.2
25°	525.0
27.5°	508.1
30°	488.5
32.5°	467.4
35°	446.4
37.5°	425.3
40°	402.8
42.5°	380.4
45°	357.9
47.5°	334.1
50°	311.6
52.5°	286.3
55°	254.1
57.5°	213.4
60°	157.2
62.5°	98.3
65°	50.5
67.5°	22.5
70°	9.8
72.5°	7.0
75°	7.0
77.5°	5.6
80°	5.6
82.5°	4.2
85°	4.2
87.5°	1.4
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	18.74	20.19	19.10	20.51	20.82	18.74	20.19	19.10	20.51	20.82
	3H	18.66	19.95	19.04	20.28	20.64	18.66	19.95	19.04	20.28	20.64
	4H	18.60	19.80	19.01	20.15	20.53	18.60	19.80	19.01	20.15	20.53
	6H	18.55	19.65	18.96	20.01	20.41	18.55	19.65	18.96	20.01	20.41
	8H	18.51	19.56	18.94	19.95	20.35	18.51	19.56	18.94	19.95	20.35
	12H	18.49	19.48	18.92	19.87	20.30	18.49	19.48	18.92	19.87	20.30
4H	2H	18.66	19.86	19.06	20.21	20.59	18.66	19.86	19.06	20.21	20.59
	3H	18.60	19.57	19.01	19.97	20.37	18.60	19.57	19.01	19.97	20.37
	4H	18.53	19.40	18.97	19.82	20.26	18.53	19.40	18.97	19.82	20.26
	6H	18.48	19.23	18.94	19.67	20.14	18.48	19.23	18.94	19.67	20.14
	8H	18.44	19.14	18.91	19.58	20.05	18.44	19.14	18.91	19.58	20.05
	12H	18.42	19.04	18.90	19.52	19.99	18.42	19.04	18.90	19.52	19.99
8H	4H	18.42	19.12	18.89	19.56	20.03	18.42	19.12	18.89	19.56	20.03
	6H	18.35	18.93	18.85	19.42	19.90	18.35	18.93	18.85	19.42	19.90
	8H	18.31	18.83	18.83	19.34	19.83	18.31	18.83	18.83	19.34	19.83
	12H	18.29	18.76	18.81	19.25	19.82	18.29	18.76	18.81	19.25	19.82
12H	4H	18.38	19.00	18.87	19.48	19.95	18.38	19.00	18.87	19.48	19.95
	6H	18.30	18.81	18.81	19.33	19.82	18.30	18.81	18.81	19.33	19.82
	8H	18.27	18.74	18.79	19.23	19.80	18.27	18.74	18.79	19.23	19.80