

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: P865429

Luminaire Tested: PRLX-2001-S-927-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

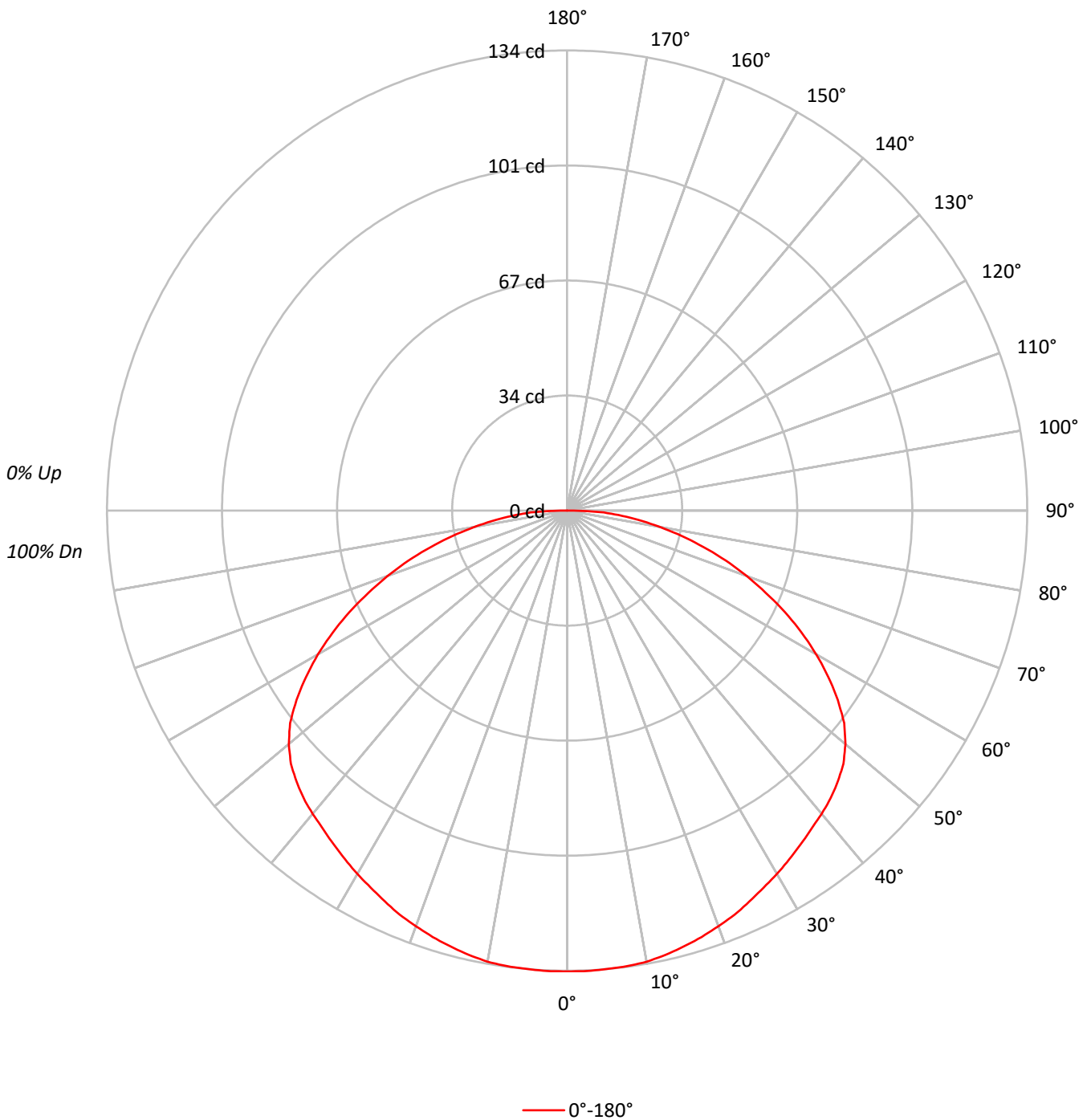
Lumens per Lamp: N/A
Luminaire Lumens: 482.9 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	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	107	102	97	93	105	100	95	91	95	92	89		91	89	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2189
5°	2194
10°	2209
15°	2219
20°	2236
25°	2260
30°	2301
35°	2361
40°	2455
45°	2572
50°	2685
55°	2736
60°	2734
65°	2702
70°	2651
75°	2590
80°	2564
85°	2807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3590 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	2.6
10°-20°	37.2	7.7
20°-30°	58.0	12.0
30°-40°	74.4	15.4
40°-50°	86.0	17.8
50°-60°	85.7	17.7
60°-70°	69.1	14.3
70°-80°	43.6	9.0
80°-90°	16.1	3.3
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°	108.0	22.4
0°-40°	182.4	37.8
0°-60°	354.1	73.3
0°-90°	482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	134	
5°	134	13
15°	131	37
25°	126	58
35°	119	74
45°	112	86
55°	96	86
65°	70	69
75°	41	44
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	134.2
2.5°	134.2
5°	134.0
7.5°	133.8
10°	133.4
12.5°	132.5
15°	131.4
17.5°	130.2
20°	128.8
22.5°	127.4
25°	125.6
27.5°	123.8
30°	122.2
32.5°	120.4
35°	118.6
37.5°	116.8
40°	115.3
42.5°	113.6
45°	111.5
47.5°	109.1
50°	105.8
52.5°	101.7
55°	96.2
57.5°	90.2
60°	83.8
62.5°	77.0
65°	70.0
67.5°	62.6
70°	55.6
72.5°	48.5
75°	41.1
77.5°	34.2
80°	27.3
82.5°	20.9
85°	15.0
87.5°	9.6
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	15.98	17.71	16.34	18.03	18.34	15.98	17.71	16.34	18.03	18.34
	3H	17.99	19.57	18.36	19.89	20.25	17.99	19.57	18.36	19.89	20.25
	4H	18.80	20.29	19.19	20.64	21.01	18.80	20.29	19.19	20.64	21.01
	6H	19.47	20.86	19.88	21.22	21.61	19.47	20.86	19.88	21.22	21.61
	8H	19.73	21.06	20.15	21.45	21.85	19.73	21.06	20.15	21.45	21.85
	12H	19.96	21.23	20.38	21.61	22.04	19.96	21.23	20.38	21.61	22.04
4H	2H	16.68	18.18	17.08	18.52	18.89	16.68	18.18	17.08	18.52	18.89
	3H	18.92	20.19	19.33	20.58	20.98	18.92	20.19	19.33	20.58	20.98
	4H	19.88	21.03	20.31	21.44	21.87	19.88	21.03	20.31	21.44	21.87
	6H	20.70	21.71	21.15	22.15	22.60	20.70	21.71	21.15	22.15	22.60
	8H	21.03	21.98	21.48	22.42	22.88	21.03	21.98	21.48	22.42	22.88
	12H	21.32	22.18	21.80	22.65	23.12	21.32	22.18	21.80	22.65	23.12
8H	4H	20.27	21.22	20.73	21.66	22.12	20.27	21.22	20.73	21.66	22.12
	6H	21.25	22.05	21.74	22.53	23.00	21.25	22.05	21.74	22.53	23.00
	8H	21.68	22.40	22.18	22.90	23.38	21.68	22.40	22.18	22.90	23.38
	12H	22.10	22.73	22.60	23.22	23.78	22.10	22.73	22.60	23.22	23.78
12H	4H	20.33	21.19	20.81	21.67	22.13	20.33	21.19	20.81	21.67	22.13
	6H	21.35	22.07	21.85	22.57	23.05	21.35	22.07	21.85	22.57	23.05
	8H	21.86	22.50	22.36	22.98	23.54	21.86	22.50	22.36	22.98	23.54