

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: P865431

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

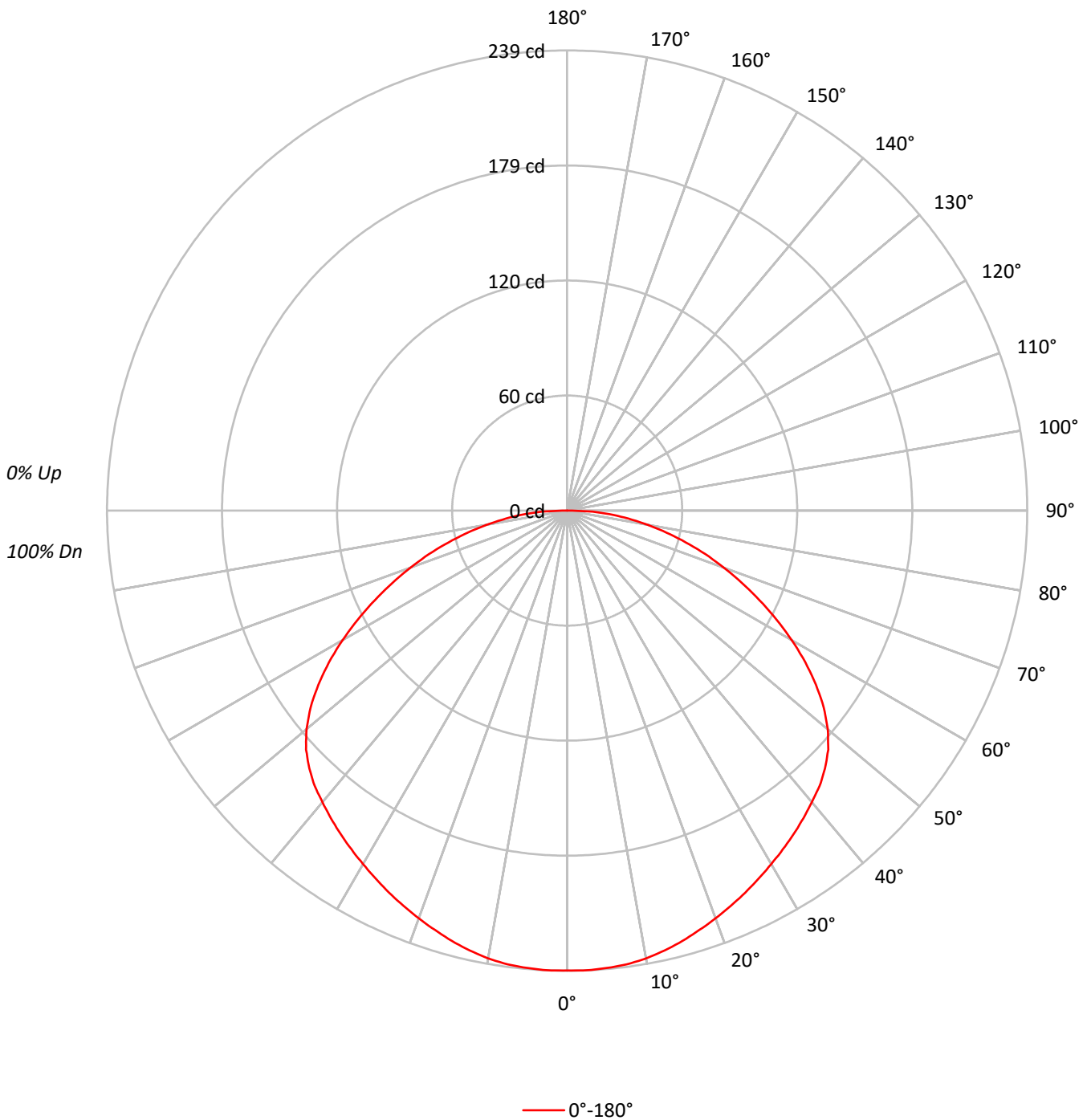
Lumens per Lamp: N/A
Luminaire Lumens: 805.2 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3896
5°	3905
10°	3912
15°	3907
20°	3912
25°	3939
30°	3993
35°	4084
40°	4209
45°	4369
50°	4484
55°	4484
60°	4394
65°	4253
70°	4125
75°	4014
80°	3973
85°	4154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 4973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	2.8
10°-20°	65.4	8.1
20°-30°	101.1	12.6
30°-40°	128.6	16.0
40°-50°	145.9	18.1
50°-60°	140.5	17.5
60°-70°	109.3	13.6
70°-80°	67.6	8.4
80°-90°	24.2	3.0
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°	189.2	23.5
0°-40°	317.8	39.5
0°-60°	604.2	75.0
0°-90°	805.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	239	
5°	238	23
15°	231	65
25°	219	101
35°	205	129
45°	189	146
55°	158	141
65°	110	109
75°	64	68
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	238.9
2.5°	239.0
5°	238.5
7.5°	237.7
10°	236.2
12.5°	234.0
15°	231.4
17.5°	228.4
20°	225.4
22.5°	222.2
25°	218.9
27.5°	215.5
30°	212.0
32.5°	208.6
35°	205.1
37.5°	201.5
40°	197.7
42.5°	194.1
45°	189.4
47.5°	183.9
50°	176.7
52.5°	168.0
55°	157.7
57.5°	146.7
60°	134.7
62.5°	122.6
65°	110.2
67.5°	98.3
70°	86.5
72.5°	75.2
75°	63.7
77.5°	52.9
80°	42.3
82.5°	32.1
85°	22.2
87.5°	13.3
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	17.61	19.32	17.97	19.63	19.94	17.61	19.32	17.97	19.63	19.94
	3H	19.50	21.05	19.87	21.38	21.73	19.50	21.05	19.87	21.38	21.73
	4H	20.26	21.73	20.66	22.08	22.45	20.26	21.73	20.66	22.08	22.45
	6H	20.90	22.26	21.31	22.63	23.02	20.90	22.26	21.31	22.63	23.02
	8H	21.15	22.45	21.57	22.84	23.24	21.15	22.45	21.57	22.84	23.24
	12H	21.35	22.60	21.78	22.98	23.41	21.35	22.60	21.78	22.98	23.41
4H	2H	18.26	19.73	18.66	20.08	20.45	18.26	19.73	18.66	20.08	20.45
	3H	20.39	21.63	20.80	22.03	22.43	20.39	21.63	20.80	22.03	22.43
	4H	21.30	22.43	21.73	22.84	23.27	21.30	22.43	21.73	22.84	23.27
	6H	22.09	23.08	22.54	23.52	23.97	22.09	23.08	22.54	23.52	23.97
	8H	22.40	23.33	22.86	23.77	24.24	22.40	23.33	22.86	23.77	24.24
	12H	22.67	23.51	23.15	23.99	24.45	22.67	23.51	23.15	23.99	24.45
8H	4H	21.68	22.61	22.13	23.05	23.51	21.68	22.61	22.13	23.05	23.51
	6H	22.62	23.40	23.11	23.88	24.36	22.62	23.40	23.11	23.88	24.36
	8H	23.03	23.73	23.54	24.24	24.72	23.03	23.73	23.54	24.24	24.72
	12H	23.41	24.04	23.92	24.52	25.08	23.41	24.04	23.92	24.52	25.08
12H	4H	21.73	22.57	22.21	23.05	23.51	21.73	22.57	22.21	23.05	23.51
	6H	22.71	23.42	23.22	23.92	24.40	22.71	23.42	23.22	23.92	24.40
	8H	23.20	23.82	23.70	24.31	24.87	23.20	23.82	23.70	24.31	24.87