

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: P865671

Luminaire Tested: PRLX-2002-S-935-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-S-935-15L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

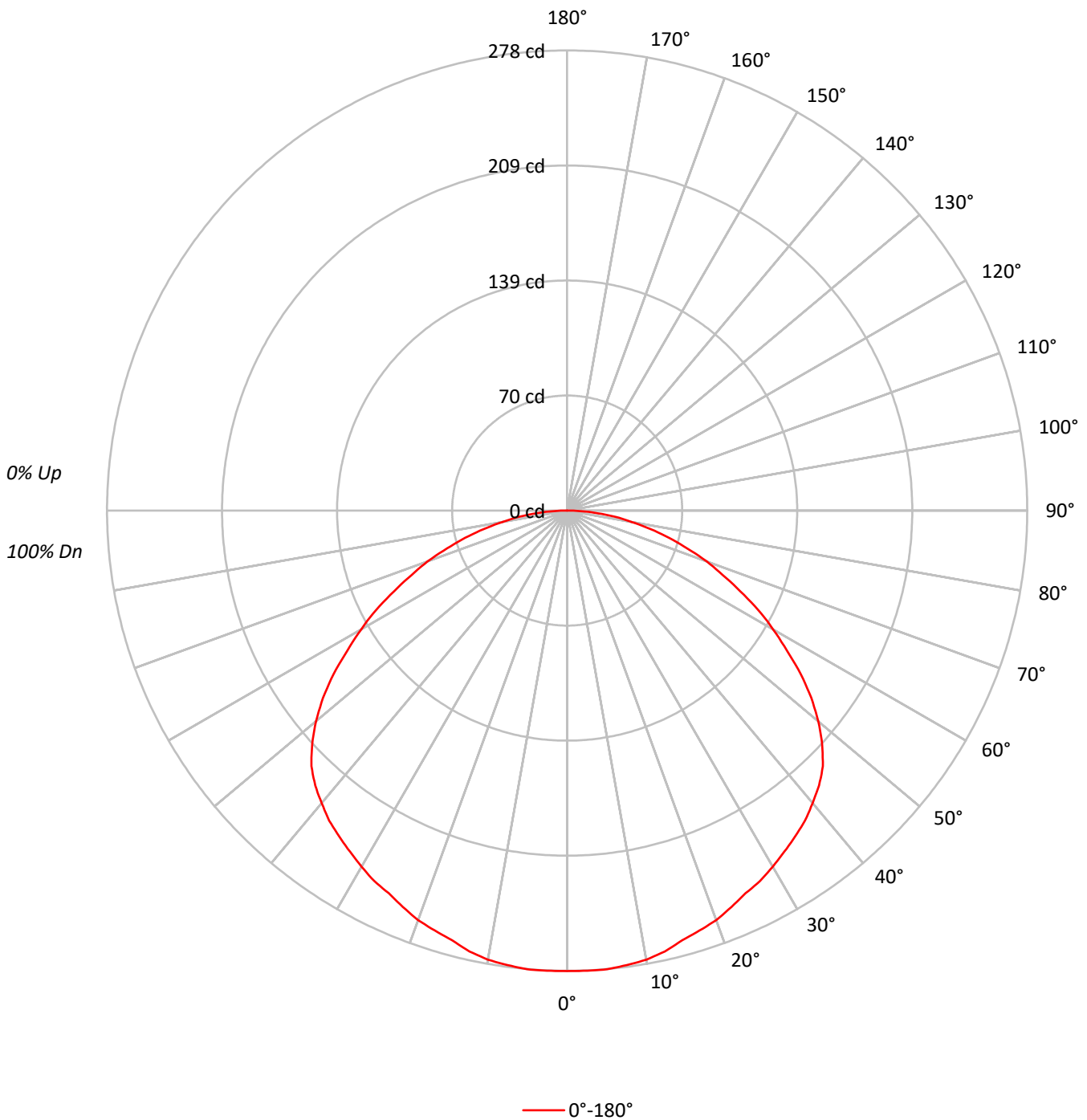
Lumens per Lamp: N/A
Luminaire Lumens: 896.0 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: 0.333 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5226
5°	5246
10°	5255
15°	5225
20°	5263
25°	5287
30°	5388
35°	5508
40°	5657
45°	5804
50°	5789
55°	5646
60°	5406
65°	5129
70°	4921
75°	4630
80°	4262
85°	4095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5811 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	3.0
10°-20°	76.1	8.5
20°-30°	118.1	13.2
30°-40°	150.6	16.8
40°-50°	167.6	18.7
50°-60°	153.5	17.1
60°-70°	114.9	12.8
70°-80°	67.5	7.5
80°-90°	21.3	2.4
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°	220.7	24.6
0°-40°	371.3	41.4
0°-60°	692.4	77.3
0°-90°	896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	278	
5°	278	26
15°	269	76
25°	255	118
35°	240	151
45°	218	168
55°	172	154
65°	115	115
75°	64	67
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	278.2
2.5°	278.2
5°	278.2
7.5°	276.9
10°	275.5
12.5°	272.8
15°	268.7
17.5°	266.0
20°	263.3
22.5°	259.2
25°	255.1
27.5°	252.4
30°	248.4
32.5°	244.3
35°	240.2
37.5°	236.1
40°	230.7
42.5°	225.3
45°	218.5
47.5°	209.0
50°	198.1
52.5°	185.9
55°	172.4
57.5°	157.4
60°	143.9
62.5°	130.3
65°	115.4
67.5°	101.8
70°	89.6
72.5°	76.0
75°	63.8
77.5°	51.6
80°	39.4
82.5°	29.9
85°	19.0
87.5°	9.5
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	18.25	19.93	18.61	20.25	20.56	18.25	19.93	18.61	20.25	20.56
	3H	20.03	21.56	20.41	21.89	22.24	20.03	21.56	20.41	21.89	22.24
	4H	20.73	22.17	21.13	22.51	22.89	20.73	22.17	21.13	22.51	22.89
	6H	21.27	22.60	21.68	22.96	23.35	21.27	22.60	21.68	22.96	23.35
	8H	21.46	22.74	21.89	23.13	23.52	21.46	22.74	21.89	23.13	23.52
	12H	21.61	22.83	22.04	23.22	23.64	21.61	22.83	22.04	23.22	23.64
4H	2H	18.87	20.31	19.27	20.66	21.03	18.87	20.31	19.27	20.66	21.03
	3H	20.89	22.10	21.30	22.50	22.90	20.89	22.10	21.30	22.50	22.90
	4H	21.73	22.82	22.16	23.23	23.67	21.73	22.82	22.16	23.23	23.67
	6H	22.40	23.36	22.85	23.80	24.25	22.40	23.36	22.85	23.80	24.25
	8H	22.65	23.55	23.11	23.99	24.46	22.65	23.55	23.11	23.99	24.46
	12H	22.86	23.67	23.34	24.14	24.61	22.86	23.67	23.34	24.14	24.61
8H	4H	22.06	22.96	22.52	23.40	23.87	22.06	22.96	22.52	23.40	23.87
	6H	22.87	23.62	23.36	24.10	24.58	22.87	23.62	23.36	24.10	24.58
	8H	23.21	23.88	23.72	24.39	24.87	23.21	23.88	23.72	24.39	24.87
	12H	23.50	24.10	24.01	24.59	25.15	23.50	24.10	24.01	24.59	25.15
12H	4H	22.10	22.92	22.58	23.39	23.86	22.10	22.92	22.58	23.39	23.86
	6H	22.94	23.61	23.44	24.12	24.60	22.94	23.61	23.44	24.12	24.60
	8H	23.35	23.95	23.85	24.44	24.99	23.35	23.95	23.85	24.44	24.99