

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: P865667

Luminaire Tested: PRLX-2002-S-935-10L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-935-10L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

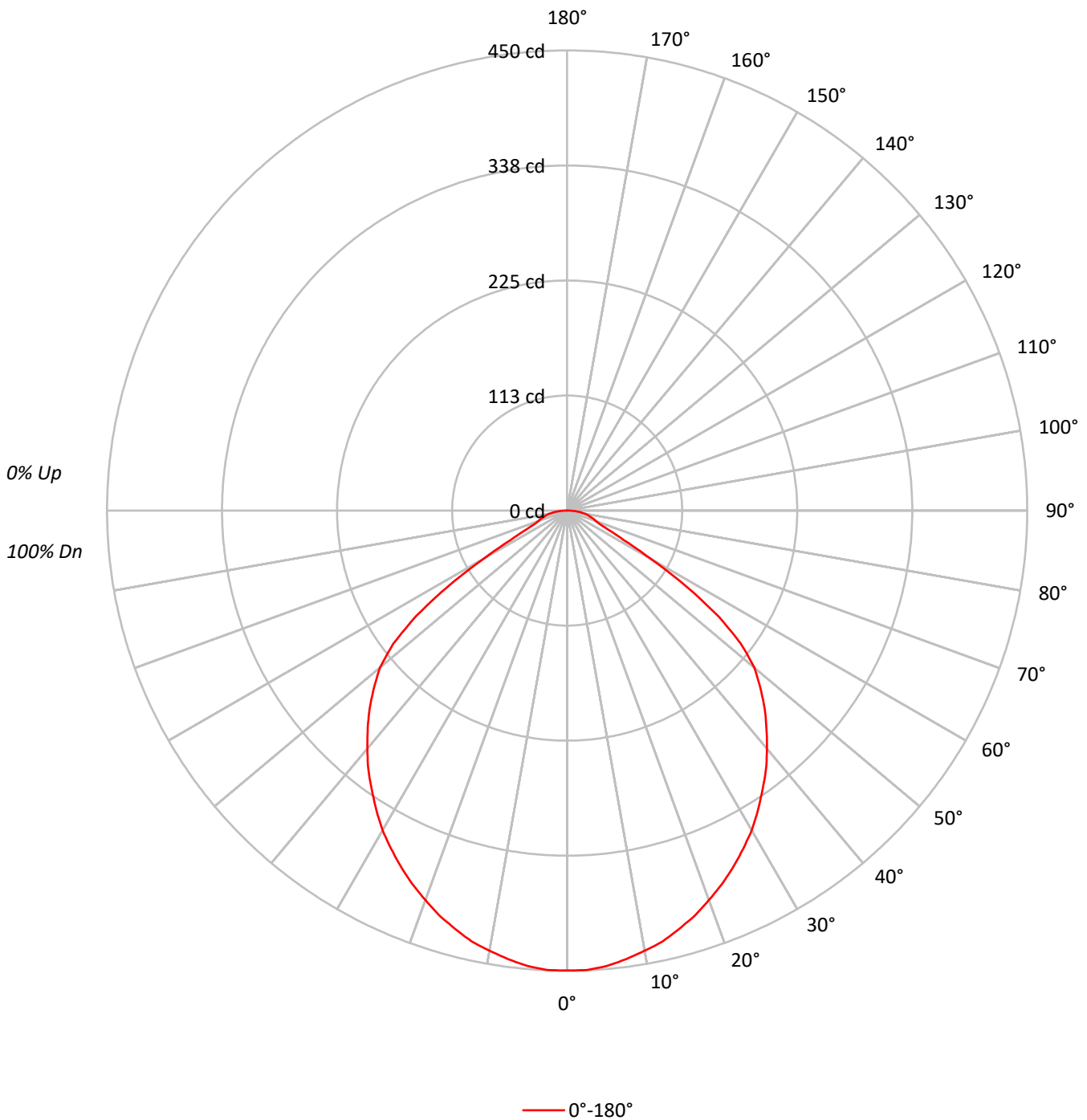
Lumens per Lamp: N/A
Luminaire Lumens: 998.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8447
5°	8429
10°	8335
15°	8234
20°	8102
25°	7969
30°	7830
35°	7636
40°	7454
45°	7258
50°	6981
55°	5928
60°	3535
65°	1969
70°	1642
75°	1706
80°	1861
85°	1940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	4.2
10°-20°	119.4	12.0
20°-30°	177.1	17.7
30°-40°	208.5	20.9
40°-50°	210.2	21.1
50°-60°	155.8	15.6
60°-70°	50.0	5.0
70°-80°	25.1	2.5
80°-90°	9.7	1.0
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°	338.9	33.9
0°-40°	547.4	54.8
0°-60°	913.4	91.5
0°-90°	998.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	450	
5°	447	42
15°	423	119
25°	384	177
35°	333	209
45°	273	210
55°	181	156
65°	44	50
75°	24	25
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	449.7
2.5°	449.7
5°	447.0
7.5°	442.4
10°	437.0
12.5°	431.6
15°	423.4
17.5°	415.3
20°	405.3
22.5°	395.4
25°	384.5
27.5°	372.8
30°	361.0
32.5°	347.4
35°	333.0
37.5°	319.4
40°	304.0
42.5°	288.6
45°	273.2
47.5°	256.0
50°	238.9
52.5°	214.4
55°	181.0
57.5°	138.4
60°	94.1
62.5°	62.4
65°	44.3
67.5°	34.4
70°	29.9
72.5°	27.1
75°	23.5
77.5°	20.8
80°	17.2
82.5°	13.6
85°	9.0
87.5°	4.5
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	17.10	18.59	17.47	18.91	19.22	17.10	18.59	17.47	18.91	19.22
	3H	17.35	18.67	17.73	19.00	19.36	17.35	18.67	17.73	19.00	19.36
	4H	17.51	18.74	17.91	19.09	19.47	17.51	18.74	17.91	19.09	19.47
	6H	17.70	18.84	18.11	19.21	19.60	17.70	18.84	18.11	19.21	19.60
	8H	17.79	18.87	18.21	19.26	19.66	17.79	18.87	18.21	19.26	19.66
	12H	17.86	18.89	18.29	19.27	19.70	17.86	18.89	18.29	19.27	19.70
4H	2H	17.10	18.34	17.50	18.68	19.06	17.10	18.34	17.50	18.68	19.06
	3H	17.49	18.49	17.90	18.90	19.30	17.49	18.49	17.90	18.90	19.30
	4H	17.74	18.65	18.18	19.06	19.50	17.74	18.65	18.18	19.06	19.50
	6H	18.07	18.86	18.53	19.30	19.76	18.07	18.86	18.53	19.30	19.76
	8H	18.22	18.95	18.68	19.40	19.87	18.22	18.95	18.68	19.40	19.87
	12H	18.35	19.00	18.83	19.48	19.95	18.35	19.00	18.83	19.48	19.95
8H	4H	17.81	18.55	18.28	18.99	19.46	17.81	18.55	18.28	18.99	19.46
	6H	18.25	18.86	18.74	19.35	19.83	18.25	18.86	18.74	19.35	19.83
	8H	18.47	19.02	18.98	19.53	20.02	18.47	19.02	18.98	19.53	20.02
	12H	18.68	19.17	19.19	19.66	20.23	18.68	19.17	19.19	19.66	20.23
12H	4H	17.81	18.47	18.30	18.95	19.42	17.81	18.47	18.30	18.95	19.42
	6H	18.27	18.82	18.78	19.33	19.82	18.27	18.82	18.78	19.33	19.82
	8H	18.54	19.04	19.05	19.53	20.10	18.54	19.04	19.05	19.53	20.10