

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: P865527

Luminaire Tested: PRLX-2001-S-935-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865527
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-935-25L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

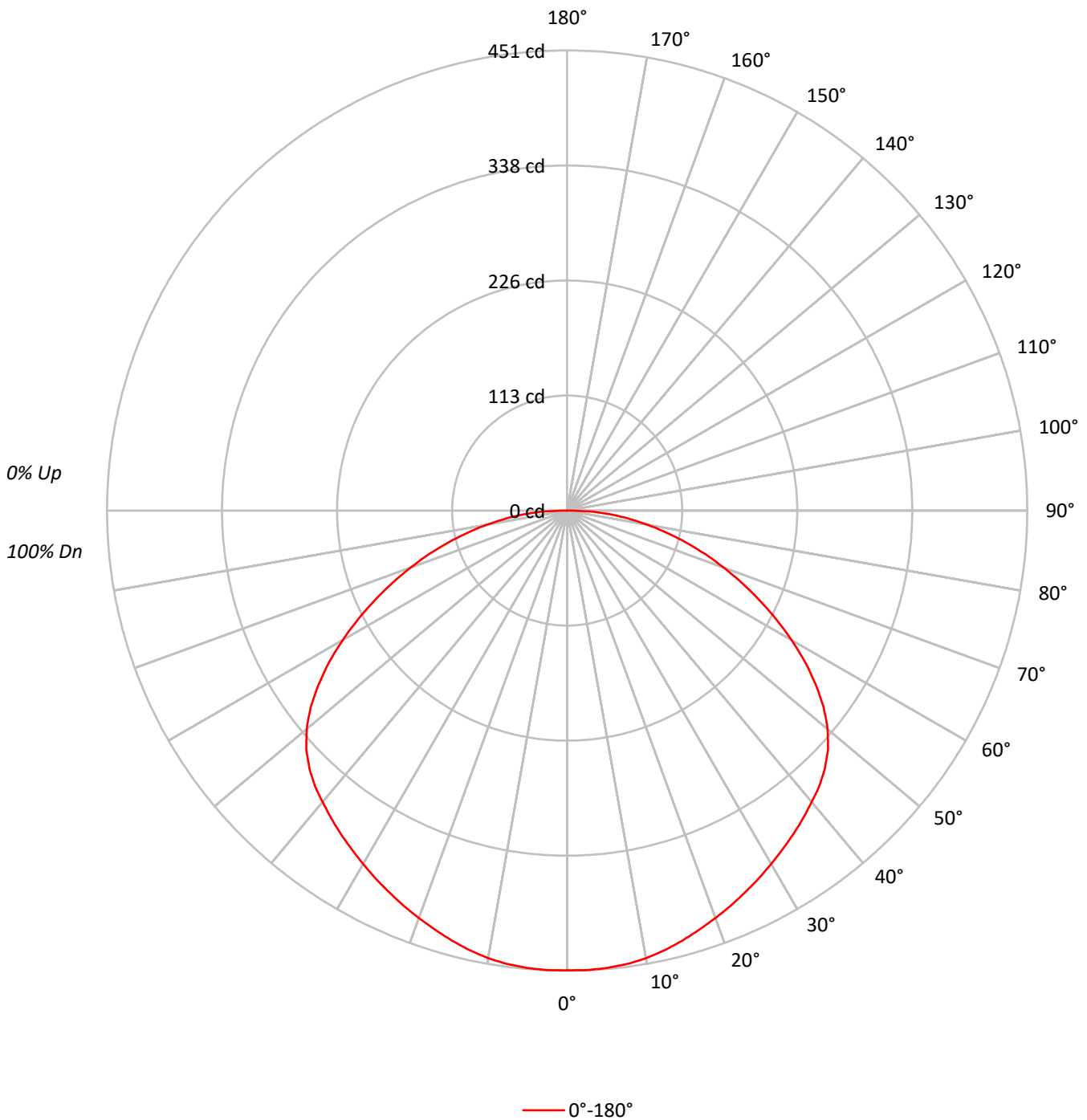
Lumens per Lamp: N/A
Luminaire Lumens: 1518.5 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7349
5°	7366
10°	7377
15°	7367
20°	7377
25°	7429
30°	7531
35°	7702
40°	7937
45°	8239
50°	8455
55°	8457
60°	8286
65°	8023
70°	7778
75°	7568
80°	7495
85°	7822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 9385 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	2.8
10°-20°	123.3	8.1
20°-30°	190.7	12.6
30°-40°	242.5	16.0
40°-50°	275.1	18.1
50°-60°	265.0	17.5
60°-70°	206.2	13.6
70°-80°	127.4	8.4
80°-90°	45.6	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°	356.8	23.5
0°-40°	599.3	39.5
0°-60°	1139.4	75.0
0°-90°	1518.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	451	
5°	450	43
15°	436	123
25°	413	191
35°	387	243
45°	357	275
55°	297	265
65°	208	206
75°	120	127
85°	42	46
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	450.6
2.5°	450.8
5°	449.9
7.5°	448.3
10°	445.4
12.5°	441.3
15°	436.3
17.5°	430.7
20°	425.0
22.5°	419.1
25°	412.8
27.5°	406.5
30°	399.9
32.5°	393.3
35°	386.8
37.5°	380.0
40°	372.8
42.5°	366.0
45°	357.2
47.5°	346.7
50°	333.2
52.5°	316.9
55°	297.4
57.5°	276.6
60°	254.0
62.5°	231.2
65°	207.9
67.5°	185.5
70°	163.1
72.5°	141.8
75°	120.1
77.5°	99.7
80°	79.8
82.5°	60.6
85°	41.8
87.5°	25.1
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	19.81	21.52	20.17	21.83	22.15	19.81	21.52	20.17	21.83	22.15
	3H	21.70	23.25	22.08	23.58	23.94	21.70	23.25	22.08	23.58	23.94
	4H	22.46	23.93	22.86	24.28	24.65	22.46	23.93	22.86	24.28	24.65
	6H	23.10	24.47	23.51	24.83	25.22	23.10	24.47	23.51	24.83	25.22
	8H	23.35	24.66	23.77	25.04	25.44	23.35	24.66	23.77	25.04	25.44
	12H	23.55	24.81	23.98	25.19	25.62	23.55	24.81	23.98	25.19	25.62
4H	2H	20.47	21.94	20.86	22.28	22.66	20.47	21.94	20.86	22.28	22.66
	3H	22.59	23.84	23.00	24.23	24.63	22.59	23.84	23.00	24.23	24.63
	4H	23.50	24.63	23.93	25.04	25.48	23.50	24.63	23.93	25.04	25.48
	6H	24.29	25.28	24.74	25.72	26.18	24.29	25.28	24.74	25.72	26.18
	8H	24.61	25.54	25.06	25.98	26.44	24.61	25.54	25.06	25.98	26.44
	12H	24.88	25.72	25.36	26.19	26.66	24.88	25.72	25.36	26.19	26.66
8H	4H	23.88	24.81	24.34	25.25	25.71	23.88	24.81	24.34	25.25	25.71
	6H	24.82	25.60	25.31	26.09	26.56	24.82	25.60	25.31	26.09	26.56
	8H	25.24	25.94	25.74	26.44	26.92	25.24	25.94	25.74	26.44	26.92
	12H	25.62	26.24	26.12	26.73	27.29	25.62	26.24	26.12	26.73	27.29
12H	4H	23.94	24.78	24.42	25.25	25.72	23.94	24.78	24.42	25.25	25.72
	6H	24.92	25.62	25.42	26.12	26.61	24.92	25.62	25.42	26.12	26.61
	8H	25.41	26.03	25.91	26.52	27.07	25.41	26.03	25.91	26.52	27.07