

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: P865687

Luminaire Tested: PRLX-2002-S-935-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865687
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-935-25L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

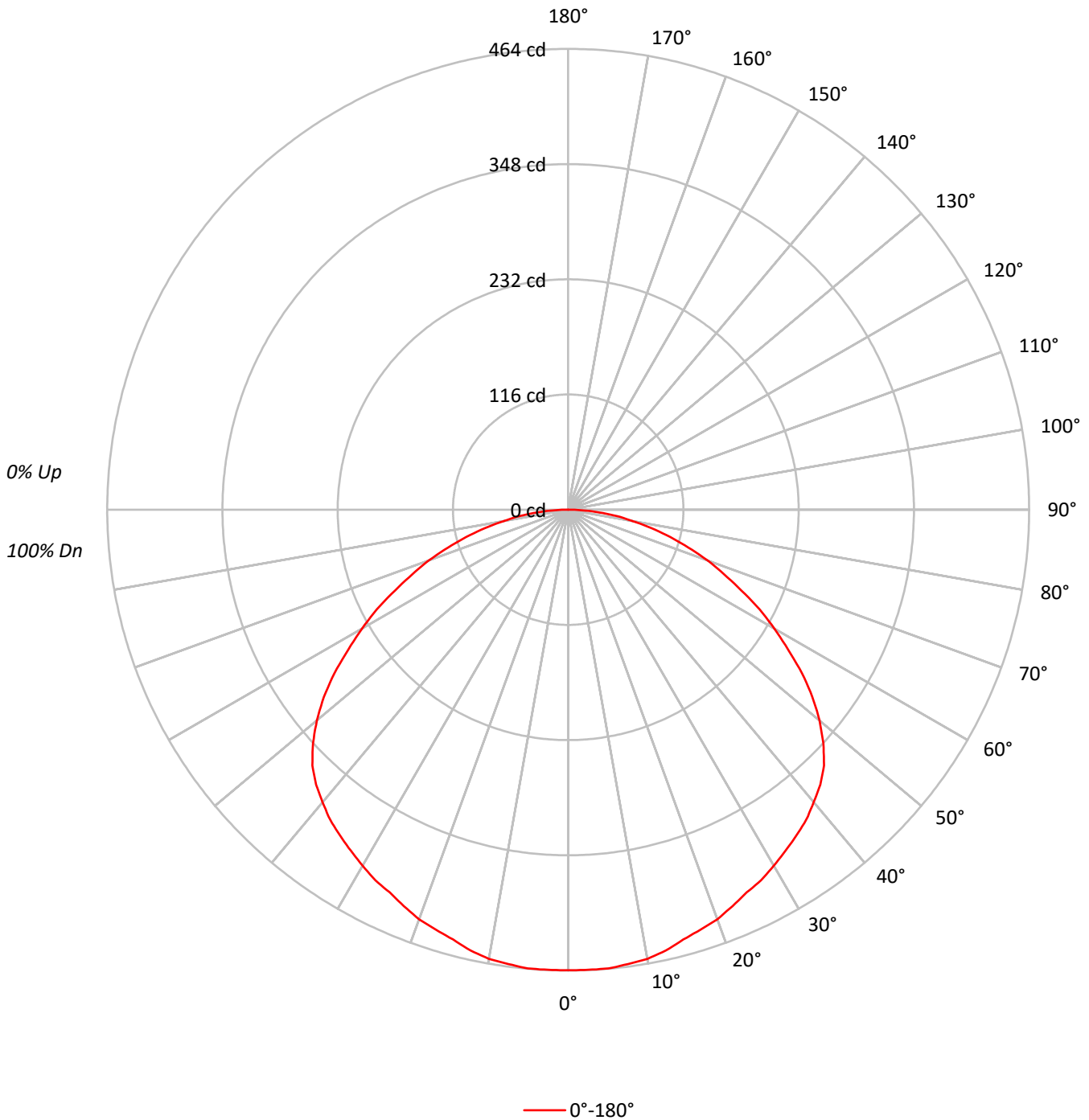
Lumens per Lamp: N/A
Luminaire Lumens: 1493.3 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.333 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°	8710
5°	8744
10°	8759
15°	8710
20°	8772
25°	8813
30°	8978
35°	9182
40°	9428
45°	9675
50°	9649
55°	9409
60°	9009
65°	8547
70°	8200
75°	7715
80°	7096
85°	6832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 9684 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.0
10°-20°	126.9	8.5
20°-30°	196.9	13.2
30°-40°	251.0	16.8
40°-50°	279.3	18.7
50°-60°	255.9	17.1
60°-70°	191.4	12.8
70°-80°	112.5	7.5
80°-90°	35.4	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°	367.9	24.6
0°-40°	618.8	41.4
0°-60°	1154.0	77.3
0°-90°	1493.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	464	
5°	464	44
15°	448	127
25°	425	197
35°	400	251
45°	364	279
55°	287	256
65°	192	191
75°	106	112
85°	32	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	463.7
2.5°	463.7
5°	463.7
7.5°	461.4
10°	459.2
12.5°	454.6
15°	447.9
17.5°	443.3
20°	438.8
22.5°	432.0
25°	425.2
27.5°	420.7
30°	413.9
32.5°	407.1
35°	400.4
37.5°	393.6
40°	384.5
42.5°	375.5
45°	364.2
47.5°	348.3
50°	330.2
52.5°	309.9
55°	287.3
57.5°	262.4
60°	239.8
62.5°	217.1
65°	192.3
67.5°	169.6
70°	149.3
72.5°	126.7
75°	106.3
77.5°	86.0
80°	65.6
82.5°	49.8
85°	31.7
87.5°	15.8
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	20.03	21.71	20.39	22.02	22.34	20.03	21.71	20.39	22.02	22.34
	3H	21.81	23.33	22.19	23.66	24.02	21.81	23.33	22.19	23.66	24.02
	4H	22.50	23.94	22.90	24.29	24.66	22.50	23.94	22.90	24.29	24.66
	6H	23.04	24.37	23.45	24.74	25.13	23.04	24.37	23.45	24.74	25.13
	8H	23.24	24.51	23.66	24.90	25.30	23.24	24.51	23.66	24.90	25.30
	12H	23.38	24.61	23.81	24.99	25.42	23.38	24.61	23.81	24.99	25.42
4H	2H	20.65	22.09	21.05	22.44	22.81	20.65	22.09	21.05	22.44	22.81
	3H	22.67	23.88	23.08	24.28	24.67	22.67	23.88	23.08	24.28	24.67
	4H	23.50	24.60	23.93	25.01	25.44	23.50	24.60	23.93	25.01	25.44
	6H	24.17	25.13	24.62	25.57	26.03	24.17	25.13	24.62	25.57	26.03
	8H	24.43	25.33	24.89	25.77	26.23	24.43	25.33	24.89	25.77	26.23
	12H	24.63	25.44	25.11	25.92	26.38	24.63	25.44	25.11	25.92	26.38
8H	4H	23.83	24.74	24.29	25.18	25.64	23.83	24.74	24.29	25.18	25.64
	6H	24.64	25.39	25.13	25.88	26.35	24.64	25.39	25.13	25.88	26.35
	8H	24.98	25.66	25.49	26.16	26.65	24.98	25.66	25.49	26.16	26.65
	12H	25.28	25.88	25.78	26.36	26.92	25.28	25.88	25.78	26.36	26.92
12H	4H	23.88	24.69	24.36	25.16	25.63	23.88	24.69	24.36	25.16	25.63
	6H	24.71	25.39	25.22	25.89	26.38	24.71	25.39	25.22	25.89	26.38
	8H	25.12	25.72	25.63	26.21	26.77	25.12	25.72	25.63	26.21	26.77