

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: P865688

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-935-25L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

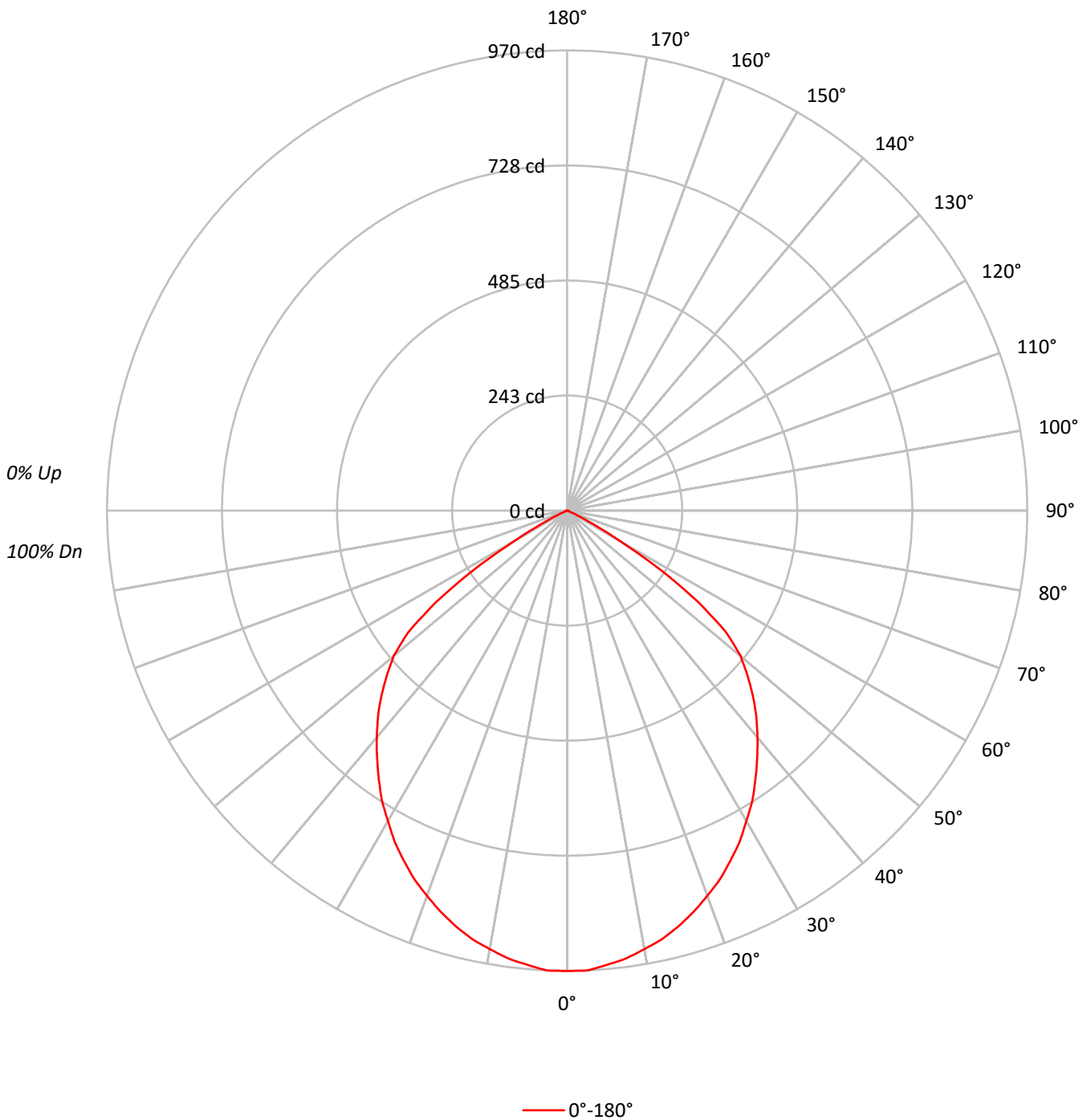
Lumens per Lamp: N/A
Luminaire Lumens: 1911.5 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18228
5°	18126
10°	17905
15°	17638
20°	17273
25°	16877
30°	16387
35°	15871
40°	15309
45°	14722
50°	13948
55°	11112
60°	4843
65°	1005
70°	126
75°	167
80°	249
85°	496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14722 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	4.8
10°-20°	255.5	13.4
20°-30°	374.9	19.6
30°-40°	432.8	22.6
40°-50°	426.5	22.3
50°-60°	288.6	15.1
60°-70°	37.4	2.0
70°-80°	2.4	0.1
80°-90°	2.2	0.1
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°	721.5	37.7
0°-40°	1154.3	60.4
0°-60°	1869.5	97.8
0°-90°	1911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	970	
5°	961	91
15°	907	255
25°	814	375
35°	692	433
45°	554	427
55°	339	289
65°	23	37
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	970.4
2.5°	970.4
5°	961.3
7.5°	952.3
10°	938.7
12.5°	925.1
15°	907.0
17.5°	886.7
20°	864.1
22.5°	841.4
25°	814.3
27.5°	787.1
30°	755.5
32.5°	726.1
35°	692.1
37.5°	658.2
40°	624.3
42.5°	590.4
45°	554.2
47.5°	515.7
50°	477.3
52.5°	423.0
55°	339.3
57.5°	235.2
60°	128.9
62.5°	61.1
65°	22.6
67.5°	4.5
70°	2.3
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	2.3
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	18.57	19.97	18.94	20.29	20.60	18.57	19.97	18.94	20.29	20.60
	3H	18.45	19.68	18.83	20.01	20.38	18.45	19.68	18.83	20.01	20.38
	4H	18.38	19.53	18.79	19.88	20.26	18.38	19.53	18.79	19.88	20.26
	6H	18.31	19.36	18.73	19.73	20.12	18.31	19.36	18.73	19.73	20.12
	8H	18.27	19.27	18.70	19.66	20.06	18.27	19.27	18.70	19.66	20.06
	12H	18.24	19.18	18.67	19.57	20.00	18.24	19.18	18.67	19.57	20.00
4H	2H	18.40	19.55	18.81	19.90	20.28	18.40	19.55	18.81	19.90	20.28
	3H	18.29	19.20	18.70	19.61	20.01	18.29	19.20	18.70	19.61	20.01
	4H	18.21	19.02	18.64	19.44	19.88	18.21	19.02	18.64	19.44	19.88
	6H	18.13	18.83	18.59	19.28	19.74	18.13	18.83	18.59	19.28	19.74
	8H	18.08	18.73	18.55	19.18	19.65	18.08	18.73	18.55	19.18	19.65
	12H	18.03	18.62	18.52	19.10	19.57	18.03	18.62	18.52	19.10	19.57
8H	4H	18.07	18.73	18.54	19.17	19.65	18.07	18.73	18.54	19.17	19.65
	6H	17.97	18.51	18.47	19.01	19.49	17.97	18.51	18.47	19.01	19.49
	8H	17.91	18.40	18.43	18.91	19.41	17.91	18.40	18.43	18.91	19.41
	12H	17.86	18.31	18.38	18.80	19.37	17.86	18.31	18.38	18.80	19.37
12H	4H	18.03	18.61	18.51	19.09	19.56	18.03	18.61	18.51	19.09	19.56
	6H	17.90	18.40	18.42	18.91	19.40	17.90	18.40	18.42	18.91	19.40
	8H	17.86	18.30	18.37	18.80	19.36	17.86	18.30	18.37	18.80	19.36