

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: P979463

Luminaire Tested: PRLX-240-935-43L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-43L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

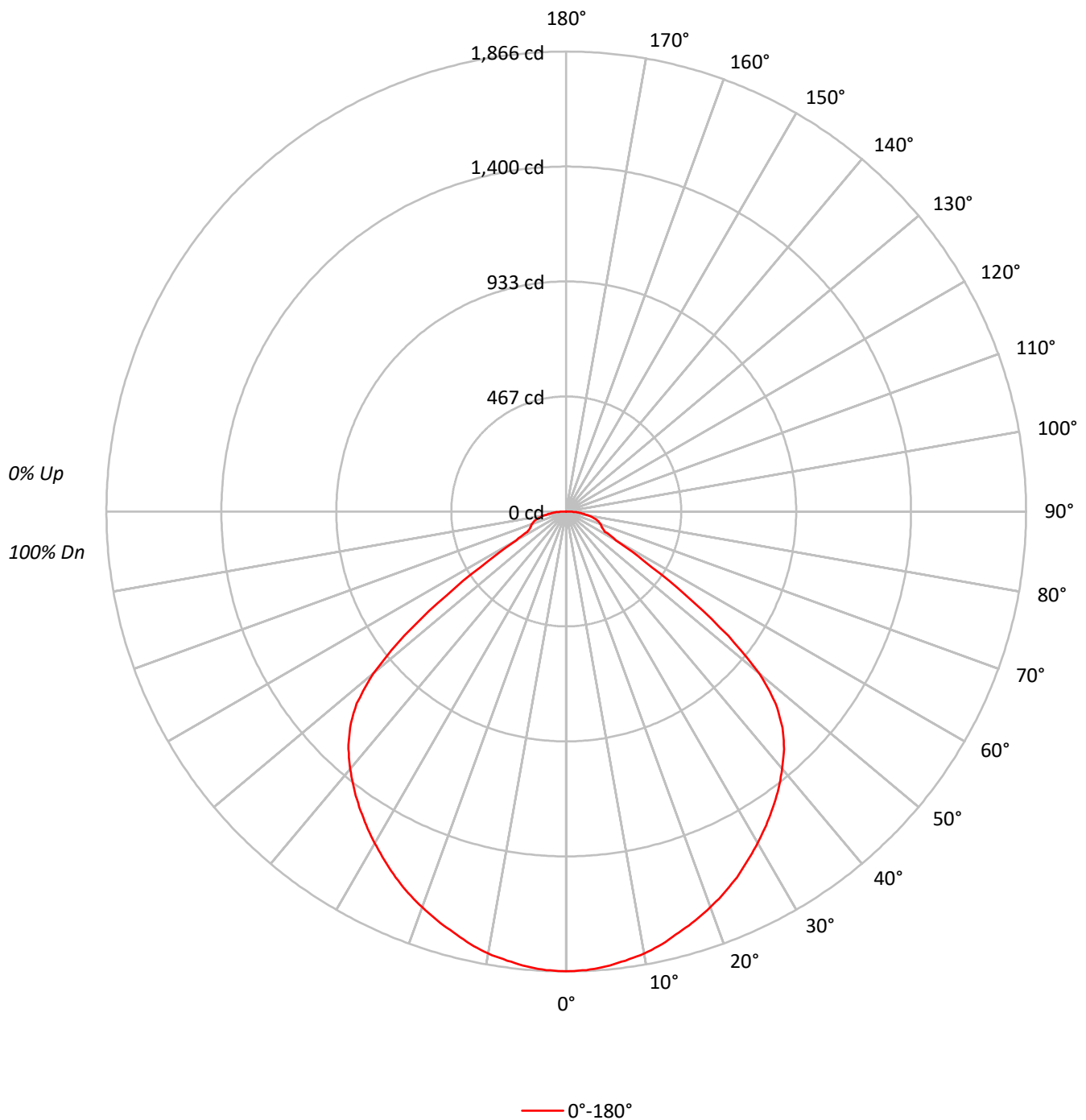
Lumens per Lamp: N/A
Luminaire Lumens: 4174.6 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18784
5°	18731
10°	18625
15°	18431
20°	18313
25°	18196
30°	18069
35°	17991
40°	17922
45°	17677
50°	16008
55°	10403
60°	4696
65°	3857
70°	4360
75°	4855
80°	5091
85°	5233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 17677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	4.2
10°-20°	499.6	12.0
20°-30°	754.9	18.1
30°-40°	916.1	21.9
40°-50°	944.5	22.6
50°-60°	535.7	12.8
60°-70°	169.4	4.1
70°-80°	129.3	3.1
80°-90°	49.3	1.2
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°	1430.3	34.3
0°-40°	2346.5	56.2
0°-60°	3826.7	91.7
0°-90°	4174.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1866	
5°	1853	176
15°	1768	500
25°	1638	755
35°	1464	916
45°	1241	945
55°	593	536
65°	162	169
75°	125	129
85°	45	49
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1865.5
2.5°	1862.8
5°	1853.2
7.5°	1838.1
10°	1821.6
12.5°	1798.3
15°	1768.1
17.5°	1740.7
20°	1709.1
22.5°	1676.2
25°	1637.8
27.5°	1596.7
30°	1554.1
32.5°	1510.2
35°	1463.6
37.5°	1415.6
40°	1363.5
42.5°	1308.6
45°	1241.4
47.5°	1153.6
50°	1021.9
52.5°	828.5
55°	592.6
57.5°	371.7
60°	233.2
62.5°	176.9
65°	161.9
67.5°	155.0
70°	148.1
72.5°	138.5
75°	124.8
77.5°	108.4
80°	87.8
82.5°	67.2
85°	45.3
87.5°	24.7
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	16.83	18.30	17.19	18.61	18.93	16.83	18.30	17.19	18.61	18.93
	3H	17.72	19.03	18.10	19.35	19.72	17.72	19.03	18.10	19.35	19.72
	4H	18.33	19.55	18.73	19.90	20.28	18.33	19.55	18.73	19.90	20.28
	6H	18.93	20.05	19.34	20.42	20.81	18.93	20.05	19.34	20.42	20.81
	8H	19.16	20.23	19.59	20.62	21.02	19.16	20.23	19.59	20.62	21.02
	12H	19.35	20.37	19.78	20.75	21.18	19.35	20.37	19.78	20.75	21.18
4H	2H	16.95	18.17	17.35	18.52	18.90	16.95	18.17	17.35	18.52	18.90
	3H	18.19	19.19	18.60	19.59	20.00	18.19	19.19	18.60	19.59	20.00
	4H	19.02	19.91	19.45	20.33	20.77	19.02	19.91	19.45	20.33	20.77
	6H	19.82	20.60	20.28	21.04	21.51	19.82	20.60	20.28	21.04	21.51
	8H	20.14	20.87	20.61	21.32	21.78	20.14	20.87	20.61	21.32	21.78
	12H	20.40	21.05	20.89	21.53	22.01	20.40	21.05	20.89	21.53	22.01
8H	4H	19.33	20.06	19.80	20.50	20.97	19.33	20.06	19.80	20.50	20.97
	6H	20.30	20.91	20.80	21.40	21.88	20.30	20.91	20.80	21.40	21.88
	8H	20.72	21.27	21.24	21.78	22.27	20.72	21.27	21.24	21.78	22.27
	12H	21.09	21.58	21.60	22.08	22.64	21.09	21.58	21.60	22.08	22.64
12H	4H	19.37	20.02	19.86	20.50	20.98	19.37	20.02	19.86	20.50	20.98
	6H	20.38	20.93	20.90	21.44	21.93	20.38	20.93	20.90	21.44	21.93
	8H	20.87	21.37	21.38	21.86	22.43	20.87	21.37	21.38	21.86	22.43