

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: P979781

Luminaire Tested: PRLX-241-935-43L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-43L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

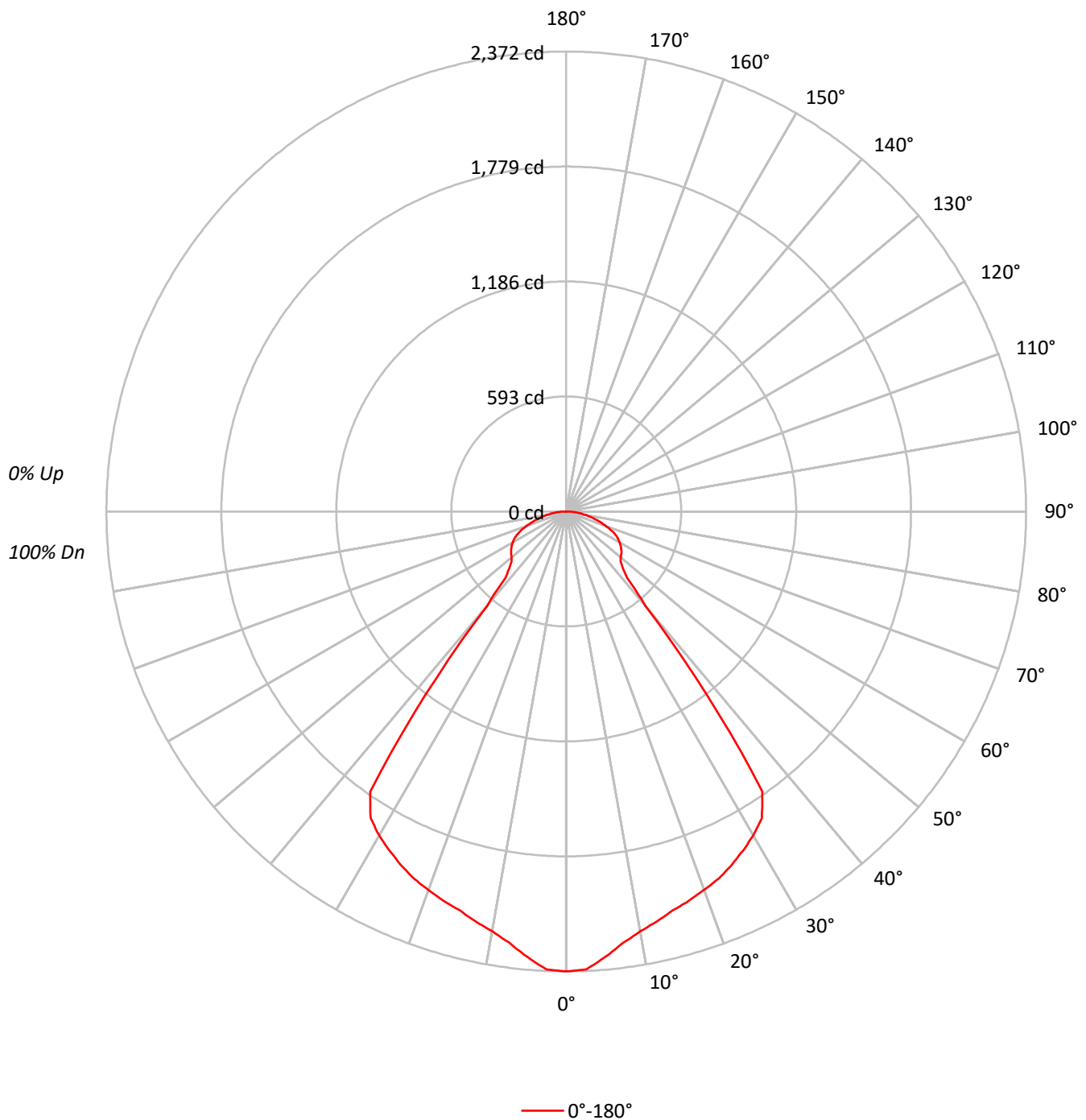
Lumens per Lamp: N/A
Luminaire Lumens: 3826.8 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	101	98		100	98	95		97	94	92		93	91	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	87	80	74		93	85	79	74		82	77	73		80	75	71		77	73	70
4	89	79	71	66		87	78	71	65		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	59		69	63	58		67	62	57		65	61	57
6	78	66	59	53		76	65	58	53		64	57	52		62	56	52		61	56	52
7	73	61	54	48		71	60	53	48		59	53	48		58	52	48		56	51	47
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	65	53	46	41		63	52	45	41		51	45	40		50	44	40		49	44	40
10	61	49	42	38		60	49	42	37		48	42	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18284
5°	17854
10°	17212
15°	16991
20°	17048
25°	17129
30°	17180
35°	16588
40°	6405
45°	4502
50°	4409
55°	4664
60°	4906
65°	5055
70°	4884
75°	4617
80°	4324
85°	4007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 5055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	5.7
10°-20°	603.3	15.8
20°-30°	928.4	24.3
30°-40°	944.4	24.7
40°-50°	338.3	8.8
50°-60°	309.4	8.1
60°-70°	270.3	7.1
70°-80°	164.4	4.3
80°-90°	51.7	1.4
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°	1748.3	45.7
0°-40°	2692.7	70.4
0°-60°	3340.3	87.3
0°-90°	3826.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2372	
5°	2307	217
15°	2129	603
25°	2014	928
35°	1763	944
45°	413	338
55°	347	309
65°	277	270
75°	155	164
85°	45	52
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2371.7
2.5°	2363.4
5°	2307.2
7.5°	2244.1
10°	2198.8
12.5°	2164.5
15°	2128.9
17.5°	2105.6
20°	2078.1
22.5°	2050.7
25°	2013.7
27.5°	1972.5
30°	1930.0
32.5°	1876.5
35°	1762.6
37.5°	1193.4
40°	636.5
42.5°	463.6
45°	412.9
47.5°	381.3
50°	367.6
52.5°	358.0
55°	347.0
57.5°	333.3
60°	318.2
62.5°	300.4
65°	277.1
67.5°	246.9
70°	216.7
72.5°	185.2
75°	155.0
77.5°	126.2
80°	97.4
82.5°	71.3
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	15.81	17.13	16.17	17.44	17.76	15.81	17.13	16.17	17.44	17.76
	3H	17.97	19.15	18.34	19.48	19.85	17.97	19.15	18.34	19.48	19.85
	4H	18.75	19.86	19.15	20.21	20.59	18.75	19.86	19.15	20.21	20.59
	6H	19.34	20.36	19.75	20.73	21.13	19.34	20.36	19.75	20.73	21.13
	8H	19.54	20.51	19.97	20.90	21.31	19.54	20.51	19.97	20.90	21.31
	12H	19.68	20.61	20.11	20.99	21.42	19.68	20.61	20.11	20.99	21.42
4H	2H	16.55	17.67	16.96	18.02	18.40	16.55	17.67	16.96	18.02	18.40
	3H	18.87	19.80	19.28	20.20	20.61	18.87	19.80	19.28	20.20	20.61
	4H	19.77	20.60	20.20	21.02	21.47	19.77	20.60	20.20	21.02	21.47
	6H	20.48	21.21	20.94	21.65	22.12	20.48	21.21	20.94	21.65	22.12
	8H	20.73	21.41	21.20	21.86	22.33	20.73	21.41	21.20	21.86	22.33
	12H	20.92	21.52	21.41	22.00	22.48	20.92	21.52	21.41	22.00	22.48
8H	4H	20.09	20.77	20.56	21.21	21.68	20.09	20.77	20.56	21.21	21.68
	6H	20.95	21.50	21.45	22.00	22.48	20.95	21.50	21.45	22.00	22.48
	8H	21.29	21.78	21.81	22.29	22.79	21.29	21.78	21.81	22.29	22.79
	12H	21.57	22.00	22.08	22.49	23.06	21.57	22.00	22.08	22.49	23.06
12H	4H	20.12	20.72	20.60	21.20	21.67	20.12	20.72	20.60	21.20	21.67
	6H	21.01	21.50	21.53	22.02	22.51	21.01	21.50	21.53	22.02	22.51
	8H	21.42	21.85	21.93	22.34	22.91	21.42	21.85	21.93	22.34	22.91

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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