

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979453

Luminaire Tested: PRLX-240-935-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979453
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-LL4-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

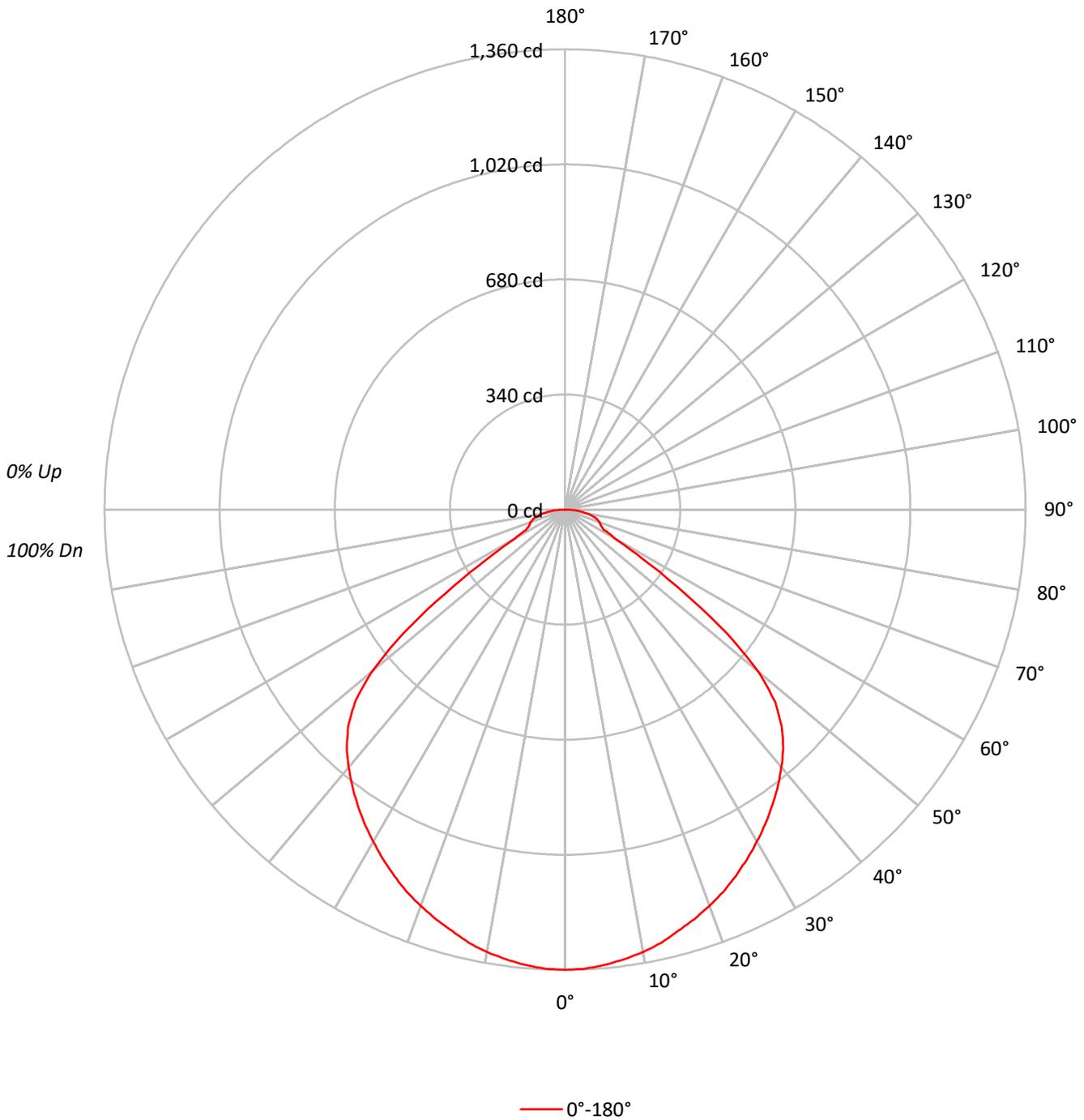
Lumens per Lamp: N/A
Luminaire Lumens: 3043.4 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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	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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13694
5°	13655
10°	13578
15°	13437
20°	13351
25°	13265
30°	13173
35°	13116
40°	13065
45°	12887
50°	11670
55°	7584
60°	3423
65°	2811
70°	3179
75°	3540
80°	3711
85°	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	4.2
10°-20°	364.2	12.0
20°-30°	550.4	18.1
30°-40°	667.9	21.9
40°-50°	688.6	22.6
50°-60°	390.5	12.8
60°-70°	123.5	4.1
70°-80°	94.2	3.1
80°-90°	35.9	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°	1042.8	34.3
0°-40°	1710.6	56.2
0°-60°	2789.7	91.7
0°-90°	3043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1360	
5°	1351	128
15°	1289	364
25°	1194	550
35°	1067	668
45°	905	689
55°	432	391
65°	118	124
75°	91	94
85°	33	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1360
2.5°	1358
5°	1351
7.5°	1340
10°	1328
12.5°	1311
15°	1289
17.5°	1269
20°	1246
22.5°	1222
25°	1194
27.5°	1164
30°	1133
32.5°	1101
35°	1067
37.5°	1032
40°	994
42.5°	954
45°	905
47.5°	841
50°	745
52.5°	604
55°	432
57.5°	271
60°	170
62.5°	129
65°	118
67.5°	113
70°	108
72.5°	101
75°	91
77.5°	79
80°	64
82.5°	49
85°	33
87.5°	18
90°	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	15.73	17.20	16.09	17.51	17.83	15.73	17.20	16.09	17.51	17.83
	3H	16.62	17.93	17.00	18.26	18.62	16.62	17.93	17.00	18.26	18.62
	4H	17.23	18.45	17.63	18.80	19.18	17.23	18.45	17.63	18.80	19.18
	6H	17.83	18.95	18.24	19.32	19.71	17.83	18.95	18.24	19.32	19.71
	8H	18.07	19.13	18.49	19.52	19.93	18.07	19.13	18.49	19.52	19.93
	12H	18.25	19.27	18.68	19.66	20.08	18.25	19.27	18.68	19.66	20.08
4H	2H	15.85	17.07	16.25	17.42	17.80	15.85	17.07	16.25	17.42	17.80
	3H	17.10	18.09	17.51	18.50	18.90	17.10	18.09	17.51	18.50	18.90
	4H	17.92	18.81	18.35	19.23	19.67	17.92	18.81	18.35	19.23	19.67
	6H	18.72	19.50	19.18	19.95	20.41	18.72	19.50	19.18	19.95	20.41
	8H	19.04	19.77	19.51	20.22	20.69	19.04	19.77	19.51	20.22	20.69
	12H	19.30	19.96	19.79	20.43	20.91	19.30	19.96	19.79	20.43	20.91
8H	4H	18.23	18.96	18.70	19.41	19.88	18.23	18.96	18.70	19.41	19.88
	6H	19.20	19.81	19.70	20.30	20.78	19.20	19.81	19.70	20.30	20.78
	8H	19.62	20.17	20.14	20.68	21.17	19.62	20.17	20.14	20.68	21.17
	12H	19.99	20.49	20.50	20.98	21.54	19.99	20.49	20.50	20.98	21.54
12H	4H	18.28	18.93	18.76	19.41	19.88	18.28	18.93	18.76	19.41	19.88
	6H	19.28	19.83	19.80	20.35	20.83	19.28	19.83	19.80	20.35	20.83
	8H	19.78	20.27	20.29	20.76	21.33	19.78	20.27	20.29	20.76	21.33