

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: P980293

Luminaire Tested: PRLX-243-927-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-927-LL8-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

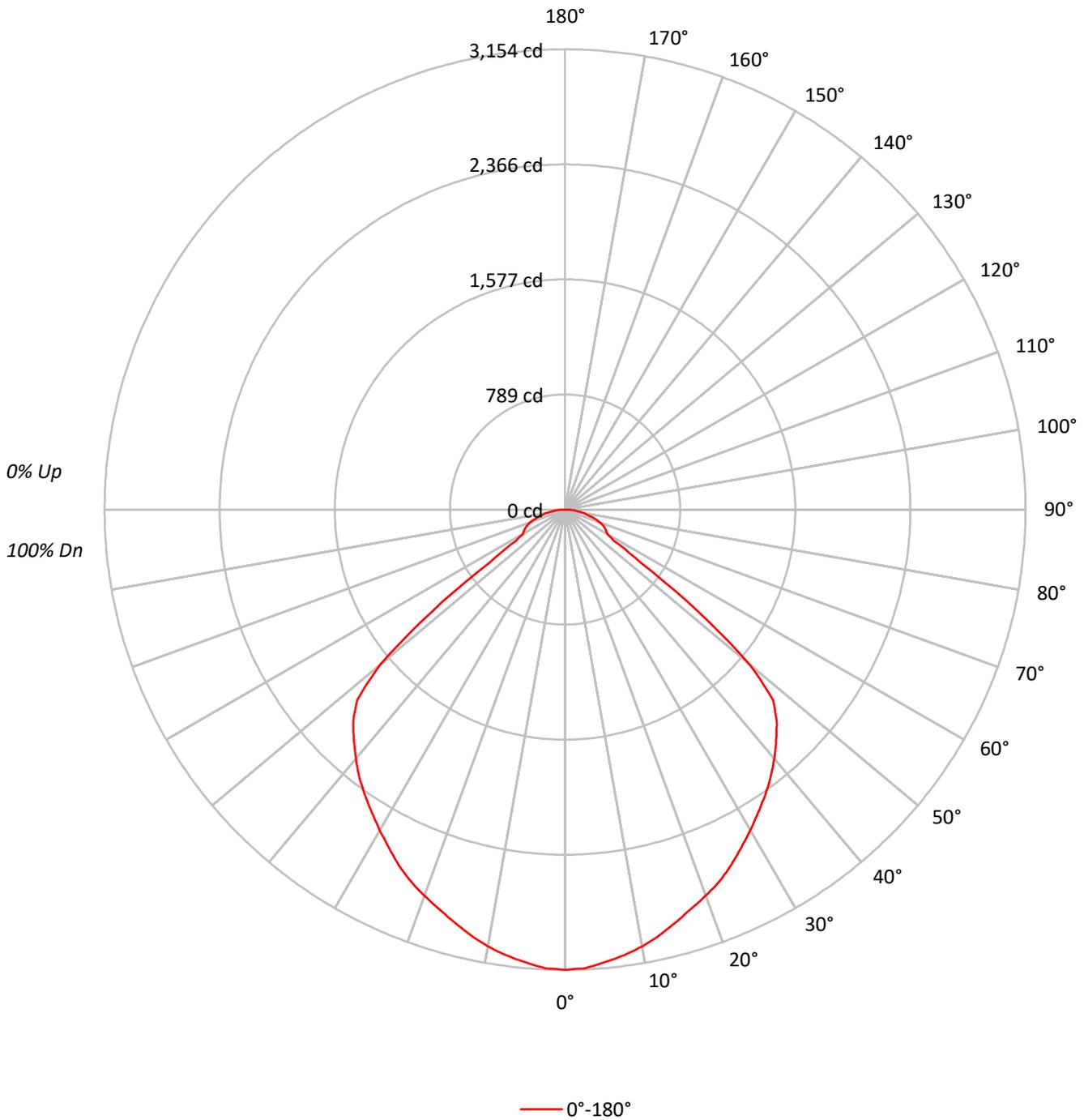
Lumens per Lamp: N/A
Luminaire Lumens: 6666.3 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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	0
RW	70	50	30	10	70	50	30	10	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				100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46				46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34				34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15562
5°	15429
10°	15229
15°	14954
20°	14783
25°	14647
30°	14456
35°	14388
40°	14357
45°	14306
50°	12692
55°	5434
60°	3276
65°	3499
70°	3608
75°	3494
80°	3370
85°	3419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	4.4
10°-20°	826.8	12.4
20°-30°	1238.9	18.6
30°-40°	1495.7	22.4
40°-50°	1555.9	23.3
50°-60°	699.9	10.5
60°-70°	293.7	4.4
70°-80°	194.2	2.9
80°-90°	66.0	1.0
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°	2360.7	35.4
0°-40°	3856.4	57.8
0°-60°	6112.3	91.7
0°-90°	6666.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3154	
5°	3115	295
15°	2928	827
25°	2691	1239
35°	2389	1496
45°	2050	1556
55°	632	700
65°	300	294
75°	183	194
85°	60	66
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3154.1
2.5°	3145.5
5°	3115.3
7.5°	3080.8
10°	3039.8
12.5°	2988.1
15°	2927.7
17.5°	2869.5
20°	2815.6
22.5°	2759.6
25°	2690.6
27.5°	2613.0
30°	2537.5
32.5°	2462.1
35°	2388.8
37.5°	2313.3
40°	2229.2
42.5°	2140.8
45°	2050.3
47.5°	1931.7
50°	1653.6
52.5°	1155.6
55°	631.7
57.5°	394.5
60°	332.0
62.5°	316.9
65°	299.7
67.5°	278.1
70°	250.1
72.5°	217.7
75°	183.3
77.5°	150.9
80°	118.6
82.5°	88.4
85°	60.4
87.5°	34.5
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	13.28	14.73	13.64	15.04	15.36	13.28	14.73	13.64	15.04	15.36
	3H	15.37	16.66	15.75	16.99	17.35	15.37	16.66	15.75	16.99	17.35
	4H	16.20	17.40	16.60	17.75	18.13	16.20	17.40	16.60	17.75	18.13
	6H	16.85	17.95	17.26	18.32	18.71	16.85	17.95	17.26	18.32	18.71
	8H	17.08	18.13	17.51	18.52	18.92	17.08	18.13	17.51	18.52	18.92
	12H	17.26	18.27	17.69	18.65	19.08	17.26	18.27	17.69	18.65	19.08
4H	2H	13.94	15.14	14.34	15.49	15.87	13.94	15.14	14.34	15.49	15.87
	3H	16.28	17.27	16.70	17.67	18.07	16.28	17.27	16.70	17.67	18.07
	4H	17.25	18.13	17.68	18.54	18.99	17.25	18.13	17.68	18.54	18.99
	6H	18.03	18.79	18.49	19.24	19.70	18.03	18.79	18.49	19.24	19.70
	8H	18.31	19.03	18.78	19.48	19.94	18.31	19.03	18.78	19.48	19.94
	12H	18.55	19.19	19.03	19.67	20.14	18.55	19.19	19.03	19.67	20.14
8H	4H	17.60	18.31	18.07	18.76	19.23	17.60	18.31	18.07	18.76	19.23
	6H	18.52	19.12	19.02	19.61	20.09	18.52	19.12	19.02	19.61	20.09
	8H	18.90	19.44	19.42	19.95	20.44	18.90	19.44	19.42	19.95	20.44
	12H	19.24	19.72	19.75	20.21	20.78	19.24	19.72	19.75	20.21	20.78
12H	4H	17.64	18.27	18.12	18.75	19.23	17.64	18.27	18.12	18.75	19.23
	6H	18.59	19.13	19.11	19.64	20.13	18.59	19.13	19.11	19.64	20.13
	8H	19.04	19.52	19.55	20.01	20.58	19.04	19.52	19.55	20.01	20.58