

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: P979301

Luminaire Tested: PRLX-240-927-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL5-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

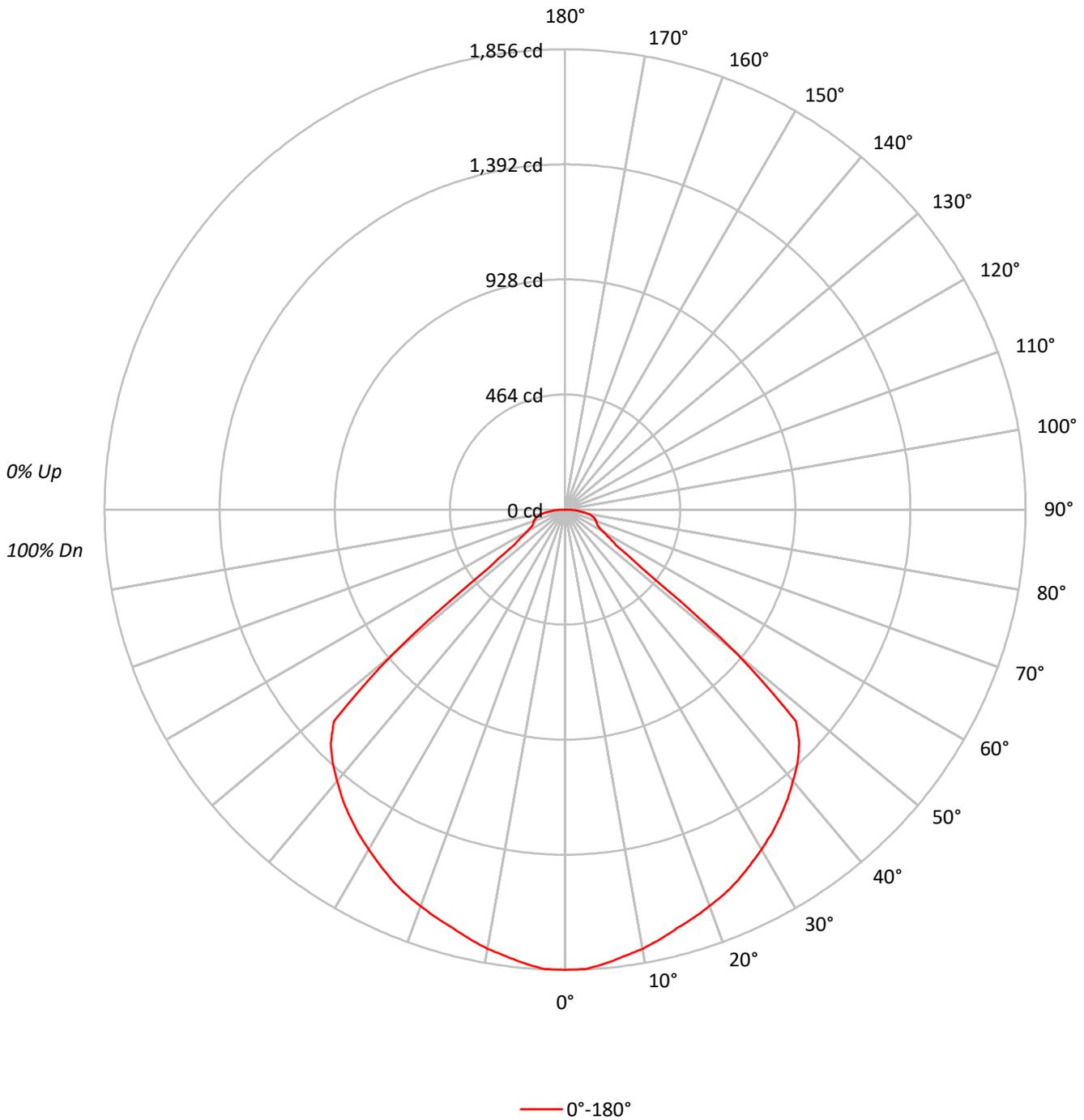
Lumens per Lamp: N/A
Luminaire Lumens: 3994.6 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	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	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60				60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35				35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18689
5°	18583
10°	18388
15°	18212
20°	18237
25°	18325
30°	18405
35°	18582
40°	18783
45°	19011
50°	14203
55°	4419
60°	3530
65°	3402
70°	3910
75°	4630
80°	5300
85°	5210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	4.4
10°-20°	494.5	12.4
20°-30°	760.4	19.0
30°-40°	946.7	23.7
40°-50°	993.1	24.9
50°-60°	307.0	7.7
60°-70°	145.5	3.6
70°-80°	122.9	3.1
80°-90°	50.3	1.3
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°	1429.1	35.8
0°-40°	2375.7	59.5
0°-60°	3675.9	92.0
0°-90°	3994.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1856	
5°	1838	174
15°	1747	495
25°	1649	760
35°	1512	947
45°	1335	993
55°	252	307
65°	143	146
75°	119	123
85°	45	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1856.1
2.5°	1854.8
5°	1838.5
7.5°	1817.2
10°	1798.5
12.5°	1774.7
15°	1747.1
17.5°	1725.8
20°	1702.0
22.5°	1678.2
25°	1649.4
27.5°	1615.6
30°	1583.0
32.5°	1549.2
35°	1511.7
37.5°	1472.8
40°	1429.0
42.5°	1386.4
45°	1335.1
47.5°	1262.4
50°	906.7
52.5°	389.5
55°	251.7
57.5°	209.2
60°	175.3
62.5°	152.8
65°	142.8
67.5°	137.8
70°	132.8
72.5°	126.5
75°	119.0
77.5°	107.7
80°	91.4
82.5°	68.9
85°	45.1
87.5°	25.0
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	13.16	14.58	13.52	14.90	15.21	13.16	14.58	13.52	14.90	15.21
	3H	15.12	16.39	15.50	16.71	17.08	15.12	16.39	15.50	16.71	17.08
	4H	16.28	17.46	16.68	17.81	18.19	16.28	17.46	16.68	17.81	18.19
	6H	17.41	18.50	17.82	18.87	19.26	17.41	18.50	17.82	18.87	19.26
	8H	17.84	18.87	18.26	19.26	19.66	17.84	18.87	18.26	19.26	19.66
	12H	18.14	19.13	18.57	19.51	19.94	18.14	19.13	18.57	19.51	19.94
4H	2H	13.66	14.85	14.07	15.20	15.58	13.66	14.85	14.07	15.20	15.58
	3H	16.03	17.00	16.44	17.40	17.81	16.03	17.00	16.44	17.40	17.81
	4H	17.41	18.28	17.85	18.70	19.14	17.41	18.28	17.85	18.70	19.14
	6H	18.73	19.49	19.19	19.93	20.40	18.73	19.49	19.19	19.93	20.40
	8H	19.23	19.94	19.70	20.38	20.85	19.23	19.94	19.70	20.38	20.85
	12H	19.60	20.23	20.09	20.71	21.18	19.60	20.23	20.09	20.71	21.18
8H	4H	17.94	18.65	18.41	19.10	19.57	17.94	18.65	18.41	19.10	19.57
	6H	19.45	20.03	19.95	20.53	21.01	19.45	20.03	19.95	20.53	21.01
	8H	20.05	20.58	20.57	21.10	21.59	20.05	20.58	20.57	21.10	21.59
	12H	20.53	21.01	21.04	21.50	22.07	20.53	21.01	21.04	21.50	22.07
12H	4H	18.04	18.67	18.52	19.15	19.62	18.04	18.67	18.52	19.15	19.62
	6H	19.58	20.12	20.10	20.63	21.12	19.58	20.12	20.10	20.63	21.12
	8H	20.27	20.74	20.78	21.24	21.80	20.27	20.74	20.78	21.24	21.80