

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: P979623

Luminaire Tested: PRLX-241-927-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-927-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

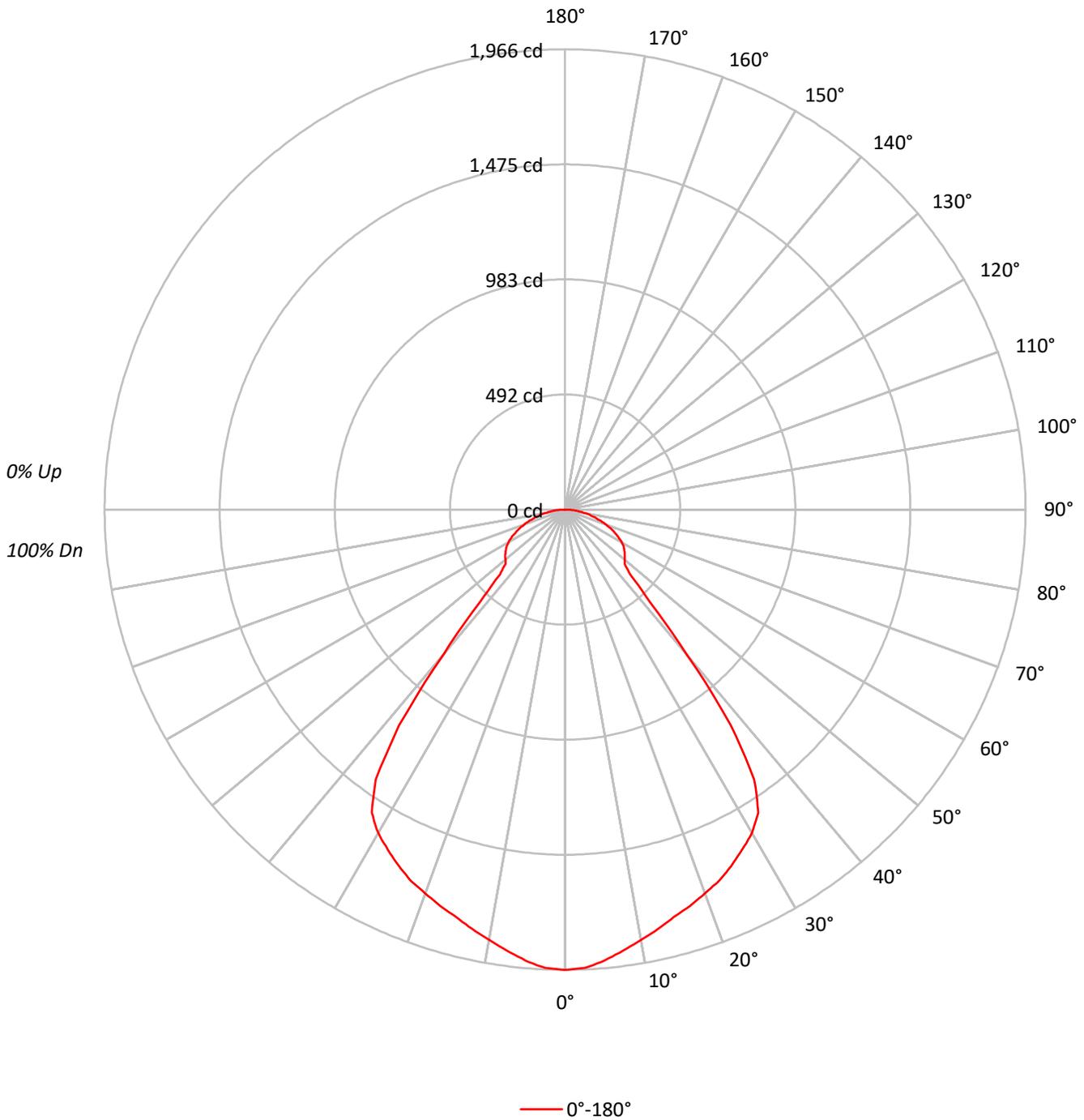
Lumens per Lamp: N/A
Luminaire Lumens: 3335.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	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	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15158
5°	14964
10°	14617
15°	14374
20°	14312
25°	14286
30°	14204
35°	13248
40°	8154
45°	4288
50°	3981
55°	4157
60°	4306
65°	4272
70°	4150
75°	3956
80°	3725
85°	3432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 4307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	5.5
10°-20°	509.6	15.3
20°-30°	773.8	23.2
30°-40°	824.5	24.7
40°-50°	352.3	10.6
50°-60°	276.2	8.3
60°-70°	230.9	6.9
70°-80°	140.7	4.2
80°-90°	44.5	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°	1465.8	44.0
0°-40°	2290.3	68.7
0°-60°	2918.8	87.5
0°-90°	3335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1966	
5°	1934	182
15°	1801	510
25°	1680	774
35°	1408	824
45°	393	352
55°	309	276
65°	234	231
75°	133	141
85°	39	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1966.3
2.5°	1960.0
5°	1933.7
7.5°	1899.9
10°	1867.3
12.5°	1834.8
15°	1801.0
17.5°	1774.7
20°	1744.6
22.5°	1717.0
25°	1679.5
27.5°	1638.1
30°	1595.6
32.5°	1535.4
35°	1407.7
37.5°	1163.5
40°	810.3
42.5°	534.8
45°	393.3
47.5°	344.4
50°	331.9
52.5°	321.9
55°	309.3
57.5°	296.8
60°	279.3
62.5°	258.0
65°	234.2
67.5°	209.2
70°	184.1
72.5°	157.8
75°	132.8
77.5°	109.0
80°	83.9
82.5°	61.4
85°	38.8
87.5°	21.3
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	15.45	16.79	15.81	17.10	17.42	15.45	16.79	15.81	17.10	17.42
	3H	17.45	18.66	17.83	18.99	19.35	17.45	18.66	17.83	18.99	19.35
	4H	18.21	19.34	18.61	19.69	20.07	18.21	19.34	18.61	19.69	20.07
	6H	18.80	19.84	19.21	20.21	20.60	18.80	19.84	19.21	20.21	20.60
	8H	19.00	19.98	19.43	20.37	20.78	19.00	19.98	19.43	20.37	20.78
	12H	19.14	20.08	19.57	20.46	20.89	19.14	20.08	19.57	20.46	20.89
4H	2H	16.12	17.25	16.52	17.60	17.98	16.12	17.25	16.52	17.60	17.98
	3H	18.32	19.26	18.73	19.66	20.06	18.32	19.26	18.73	19.66	20.06
	4H	19.20	20.05	19.64	20.47	20.91	19.20	20.05	19.64	20.47	20.91
	6H	19.92	20.65	20.38	21.10	21.56	19.92	20.65	20.38	21.10	21.56
	8H	20.17	20.86	20.64	21.30	21.77	20.17	20.86	20.64	21.30	21.77
	12H	20.36	20.96	20.84	21.45	21.92	20.36	20.96	20.84	21.45	21.92
8H	4H	19.52	20.21	19.99	20.65	21.12	19.52	20.21	19.99	20.65	21.12
	6H	20.38	20.94	20.88	21.44	21.92	20.38	20.94	20.88	21.44	21.92
	8H	20.72	21.22	21.24	21.74	22.23	20.72	21.22	21.24	21.74	22.23
	12H	21.00	21.44	21.51	21.93	22.50	21.00	21.44	21.51	21.93	22.50
12H	4H	19.55	20.16	20.04	20.64	21.11	19.55	20.16	20.04	20.64	21.11
	6H	20.44	20.95	20.96	21.46	21.95	20.44	20.95	20.96	21.46	21.95
	8H	20.85	21.29	21.36	21.78	22.35	20.85	21.29	21.36	21.78	22.35