

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: P980103

Luminaire Tested: PRLX-242-935-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

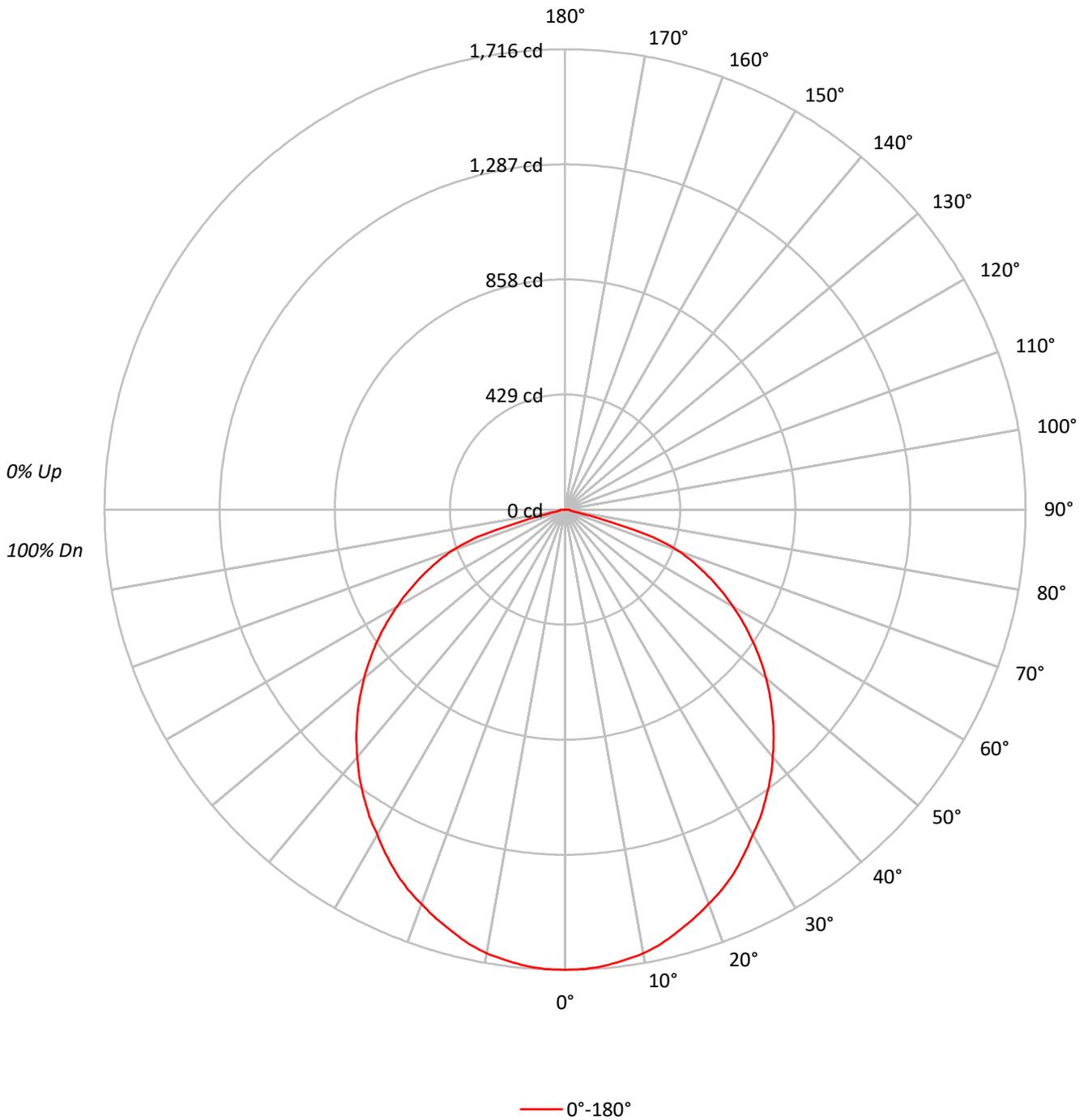
Lumens per Lamp: N/A
Luminaire Lumens: 4526.9 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7679
5°	7672
10°	7636
15°	7543
20°	7454
25°	7369
30°	7230
35°	7141
40°	7036
45°	6927
50°	6809
55°	6657
60°	6470
65°	6232
70°	5887
75°	2443
80°	531
85°	847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	3.6
10°-20°	459.5	10.1
20°-30°	686.7	15.2
30°-40°	817.9	18.1
40°-50°	844.4	18.7
50°-60°	762.3	16.8
60°-70°	582.2	12.9
70°-80°	196.6	4.3
80°-90°	15.1	0.3
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°	1308.2	28.9
0°-40°	2126.1	47.0
0°-60°	3732.9	82.5
0°-90°	4526.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4526.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1716	
5°	1708	162
15°	1628	459
25°	1492	687
35°	1307	818
45°	1095	844
55°	853	762
65°	588	582
75°	141	197
85°	16	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1716.0
2.5°	1714.6
5°	1707.8
7.5°	1694.1
10°	1680.3
12.5°	1658.4
15°	1628.2
17.5°	1598.0
20°	1565.1
22.5°	1532.2
25°	1492.4
27.5°	1447.1
30°	1399.1
32.5°	1356.6
35°	1307.2
37.5°	1257.9
40°	1204.4
42.5°	1150.9
45°	1094.6
47.5°	1037.0
50°	978.0
52.5°	916.3
55°	853.2
57.5°	788.7
60°	722.9
62.5°	657.0
65°	588.5
67.5°	521.2
70°	449.9
72.5°	344.3
75°	141.3
77.5°	30.2
80°	20.6
82.5°	19.2
85°	16.5
87.5°	9.6
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	18.94	20.54	19.30	20.86	21.17	18.94	20.54	19.30	20.86	21.17
	3H	20.77	22.21	21.14	22.53	22.90	20.77	22.21	21.14	22.53	22.90
	4H	21.00	22.35	21.40	22.70	23.08	21.00	22.35	21.40	22.70	23.08
	6H	20.95	22.20	21.36	22.56	22.95	20.95	22.20	21.36	22.56	22.95
	8H	20.92	22.11	21.34	22.50	22.90	20.92	22.11	21.34	22.50	22.90
	12H	20.90	22.04	21.32	22.42	22.85	20.90	22.04	21.32	22.42	22.85
4H	2H	19.59	20.94	19.99	21.29	21.67	19.59	20.94	19.99	21.29	21.67
	3H	21.59	22.72	22.00	23.12	23.52	21.59	22.72	22.00	23.12	23.52
	4H	21.81	22.82	22.24	23.23	23.67	21.81	22.82	22.24	23.23	23.67
	6H	21.77	22.65	22.23	23.09	23.55	21.77	22.65	22.23	23.09	23.55
	8H	21.74	22.56	22.20	23.00	23.47	21.74	22.56	22.20	23.00	23.47
	12H	21.72	22.45	22.20	22.93	23.40	21.72	22.45	22.20	22.93	23.40
8H	4H	21.86	22.68	22.33	23.12	23.59	21.86	22.68	22.33	23.12	23.59
	6H	21.81	22.48	22.31	22.97	23.45	21.81	22.48	22.31	22.97	23.45
	8H	21.78	22.38	22.29	22.88	23.37	21.78	22.38	22.29	22.88	23.37
	12H	21.77	22.29	22.28	22.78	23.35	21.77	22.29	22.28	22.78	23.35
12H	4H	21.84	22.57	22.32	23.05	23.52	21.84	22.57	22.32	23.05	23.52
	6H	21.77	22.37	22.28	22.88	23.36	21.77	22.37	22.28	22.88	23.36
	8H	21.76	22.28	22.27	22.78	23.34	21.76	22.28	22.27	22.78	23.34