

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: P979543

Luminaire Tested: PRLX-240-940-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979543
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-240-940-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

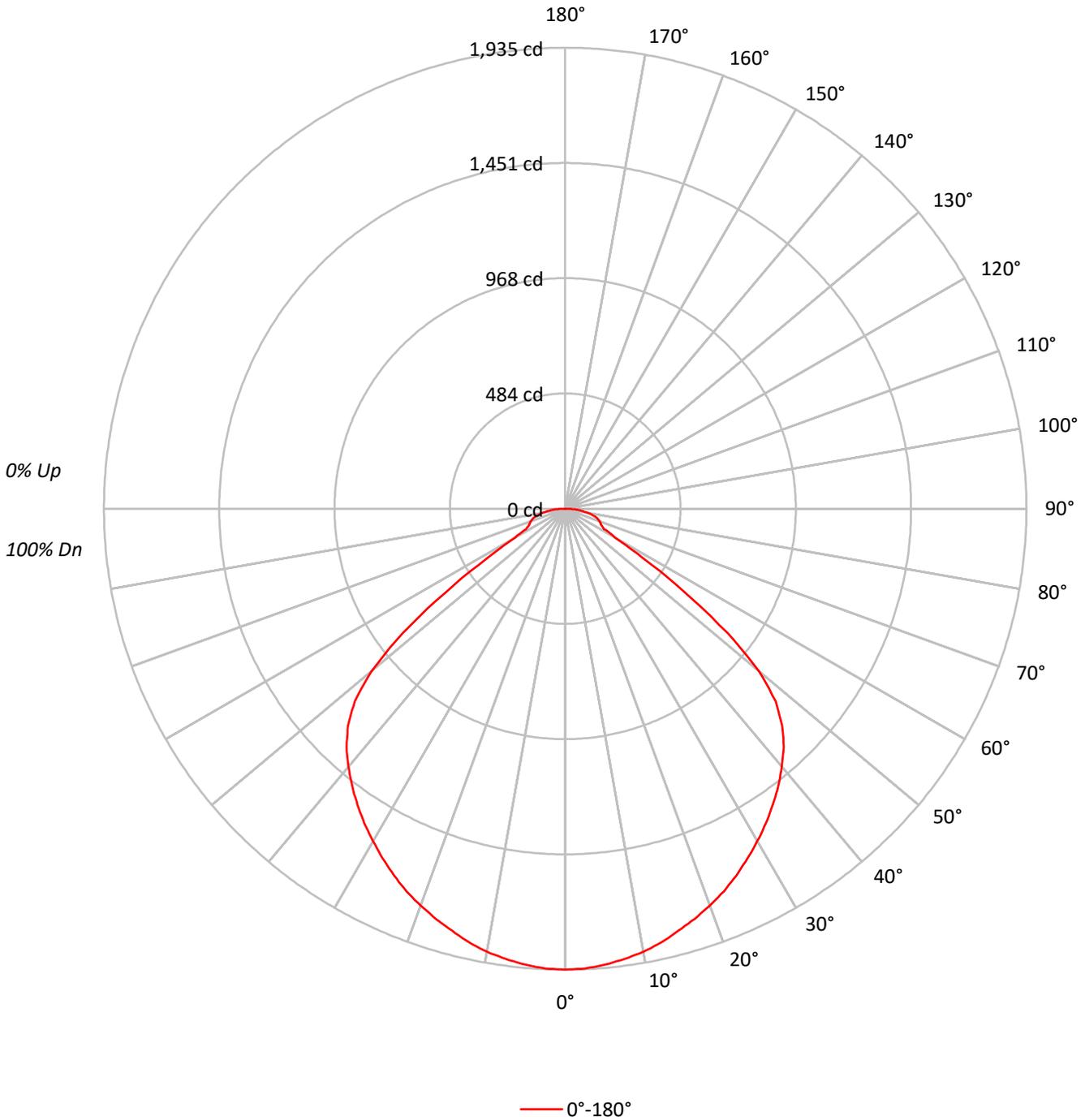
Lumens per Lamp: N/A
Luminaire Lumens: 4329.8 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	19483
5°	19427
10°	19317
15°	19116
20°	18995
25°	18872
30°	18741
35°	18659
40°	18587
45°	18334
50°	16603
55°	10789
60°	4871
65°	4000
70°	4525
75°	5038
80°	5282
85°	5418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	4.2
10°-20°	518.1	12.0
20°-30°	783.0	18.1
30°-40°	950.2	21.9
40°-50°	979.6	22.6
50°-60°	555.6	12.8
60°-70°	175.7	4.1
70°-80°	134.1	3.1
80°-90°	51.1	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°	1483.5	34.3
0°-40°	2433.7	56.2
0°-60°	3968.9	91.7
0°-90°	4329.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4329.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1935	
5°	1922	182
15°	1834	518
25°	1699	783
35°	1518	950
45°	1288	980
55°	615	556
65°	168	176
75°	130	134
85°	47	51
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1934.9
2.5°	1932.0
5°	1922.0
7.5°	1906.4
10°	1889.3
12.5°	1865.1
15°	1833.8
17.5°	1805.4
20°	1772.7
22.5°	1738.5
25°	1698.7
27.5°	1656.0
30°	1611.9
32.5°	1566.4
35°	1518.0
37.5°	1468.2
40°	1414.1
42.5°	1357.2
45°	1287.5
47.5°	1196.5
50°	1059.9
52.5°	859.3
55°	614.6
57.5°	385.5
60°	241.9
62.5°	183.5
65°	167.9
67.5°	160.8
70°	153.7
72.5°	143.7
75°	129.5
77.5°	112.4
80°	91.1
82.5°	69.7
85°	46.9
87.5°	25.6
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	16.95	18.42	17.32	18.74	19.05	16.95	18.42	17.32	18.74	19.05
	3H	17.85	19.15	18.22	19.48	19.84	17.85	19.15	18.22	19.48	19.84
	4H	18.45	19.67	18.85	20.02	20.40	18.45	19.67	18.85	20.02	20.40
	6H	19.05	20.18	19.47	20.54	20.94	19.05	20.18	19.47	20.54	20.94
	8H	19.29	20.36	19.72	20.75	21.15	19.29	20.36	19.72	20.75	21.15
	12H	19.48	20.50	19.91	20.88	21.31	19.48	20.50	19.91	20.88	21.31
4H	2H	17.08	18.30	17.48	18.65	19.03	17.08	18.30	17.48	18.65	19.03
	3H	18.32	19.32	18.73	19.72	20.12	18.32	19.32	18.73	19.72	20.12
	4H	19.14	20.04	19.58	20.46	20.90	19.14	20.04	19.58	20.46	20.90
	6H	19.95	20.73	20.41	21.17	21.63	19.95	20.73	20.41	21.17	21.63
	8H	20.27	21.00	20.73	21.44	21.91	20.27	21.00	20.73	21.44	21.91
	12H	20.53	21.18	21.01	21.66	22.13	20.53	21.18	21.01	21.66	22.13
8H	4H	19.46	20.19	19.92	20.63	21.10	19.46	20.19	19.92	20.63	21.10
	6H	20.43	21.03	20.93	21.53	22.01	20.43	21.03	20.93	21.53	22.01
	8H	20.85	21.40	21.36	21.91	22.40	20.85	21.40	21.36	21.91	22.40
	12H	21.22	21.71	21.73	22.20	22.77	21.22	21.71	21.73	22.20	22.77
12H	4H	19.50	20.15	19.98	20.63	21.10	19.50	20.15	19.98	20.63	21.10
	6H	20.51	21.06	21.02	21.57	22.06	20.51	21.06	21.02	21.57	22.06
	8H	21.00	21.50	21.51	21.99	22.55	21.00	21.50	21.51	21.99	22.55