

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: P979533

Luminaire Tested: PRLX-240-940-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979533
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-LL4-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

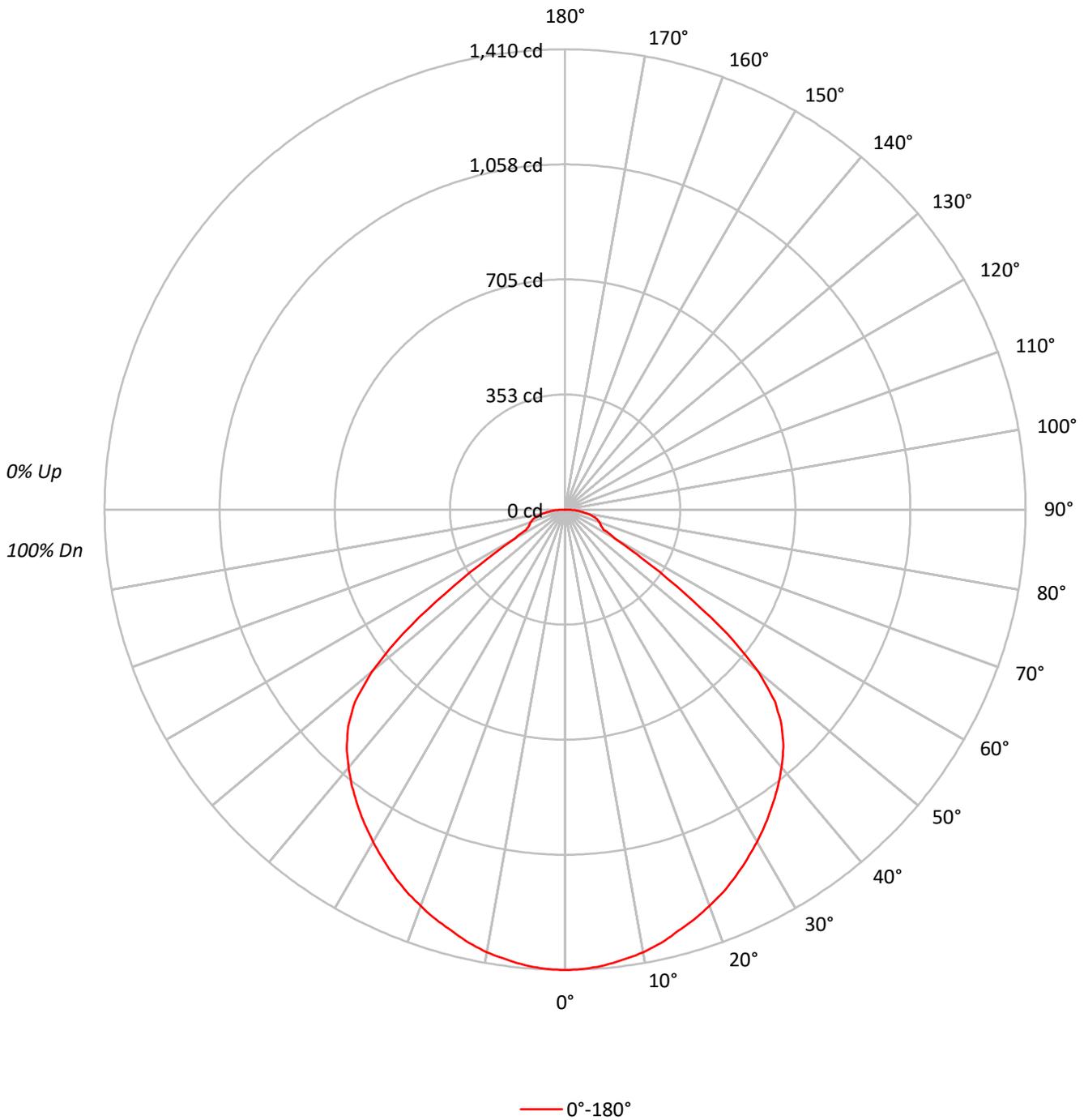
Lumens per Lamp: N/A
Luminaire Lumens: 3156.6 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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°	14202
5°	14163
10°	14083
15°	13936
20°	13847
25°	13759
30°	13663
35°	13604
40°	13550
45°	13365
50°	12104
55°	7866
60°	3550
65°	2916
70°	3297
75°	3673
80°	3850
85°	3951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13365 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	4.2
10°-20°	377.7	12.0
20°-30°	570.8	18.1
30°-40°	692.7	21.9
40°-50°	714.2	22.6
50°-60°	405.0	12.8
60°-70°	128.1	4.1
70°-80°	97.8	3.1
80°-90°	37.3	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°	1081.5	34.3
0°-40°	1774.2	56.2
0°-60°	2893.4	91.7
0°-90°	3156.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1410	
5°	1401	133
15°	1337	378
25°	1238	571
35°	1107	693
45°	939	714
55°	448	405
65°	122	128
75°	94	98
85°	34	37
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1410.5
2.5°	1408.5
5°	1401.2
7.5°	1389.8
10°	1377.4
12.5°	1359.7
15°	1336.9
17.5°	1316.2
20°	1292.3
22.5°	1267.4
25°	1238.4
27.5°	1207.3
30°	1175.1
32.5°	1141.9
35°	1106.7
37.5°	1070.4
40°	1030.9
42.5°	989.5
45°	938.6
47.5°	872.3
50°	772.7
52.5°	626.4
55°	448.1
57.5°	281.1
60°	176.3
62.5°	133.8
65°	122.4
67.5°	117.2
70°	112.0
72.5°	104.8
75°	94.4
77.5°	81.9
80°	66.4
82.5°	50.8
85°	34.2
87.5°	18.7
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	15.86	17.33	16.22	17.64	17.95	15.86	17.33	16.22	17.64	17.95
	3H	16.75	18.05	17.13	18.38	18.75	16.75	18.05	17.13	18.38	18.75
	4H	17.36	18.58	17.76	18.93	19.31	17.36	18.58	17.76	18.93	19.31
	6H	17.96	19.08	18.37	19.45	19.84	17.96	19.08	18.37	19.45	19.84
	8H	18.19	19.26	18.62	19.65	20.05	18.19	19.26	18.62	19.65	20.05
	12H	18.38	19.40	18.81	19.78	20.21	18.38	19.40	18.81	19.78	20.21
4H	2H	15.98	17.20	16.38	17.55	17.93	15.98	17.20	16.38	17.55	17.93
	3H	17.22	18.22	17.63	18.62	19.03	17.22	18.22	17.63	18.62	19.03
	4H	18.05	18.94	18.48	19.36	19.80	18.05	18.94	18.48	19.36	19.80
	6H	18.85	19.63	19.31	20.07	20.54	18.85	19.63	19.31	20.07	20.54
	8H	19.17	19.90	19.64	20.34	20.81	19.17	19.90	19.64	20.34	20.81
	12H	19.43	20.08	19.91	20.56	21.03	19.43	20.08	19.91	20.56	21.03
8H	4H	18.36	19.09	18.83	19.53	20.00	18.36	19.09	18.83	19.53	20.00
	6H	19.33	19.94	19.83	20.43	20.91	19.33	19.94	19.83	20.43	20.91
	8H	19.75	20.30	20.27	20.81	21.30	19.75	20.30	20.27	20.81	21.30
	12H	20.12	20.61	20.63	21.10	21.67	20.12	20.61	20.63	21.10	21.67
12H	4H	18.40	19.05	18.89	19.53	20.01	18.40	19.05	18.89	19.53	20.01
	6H	19.41	19.96	19.93	20.47	20.96	19.41	19.96	19.93	20.47	20.96
	8H	19.90	20.40	20.41	20.89	21.45	19.90	20.40	20.41	20.89	21.45