

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: P979783

Luminaire Tested: PRLX-241-935-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979783
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-241-935-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3652.6 lumens
Efficiency: N/A
Efficacy: 123.8 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

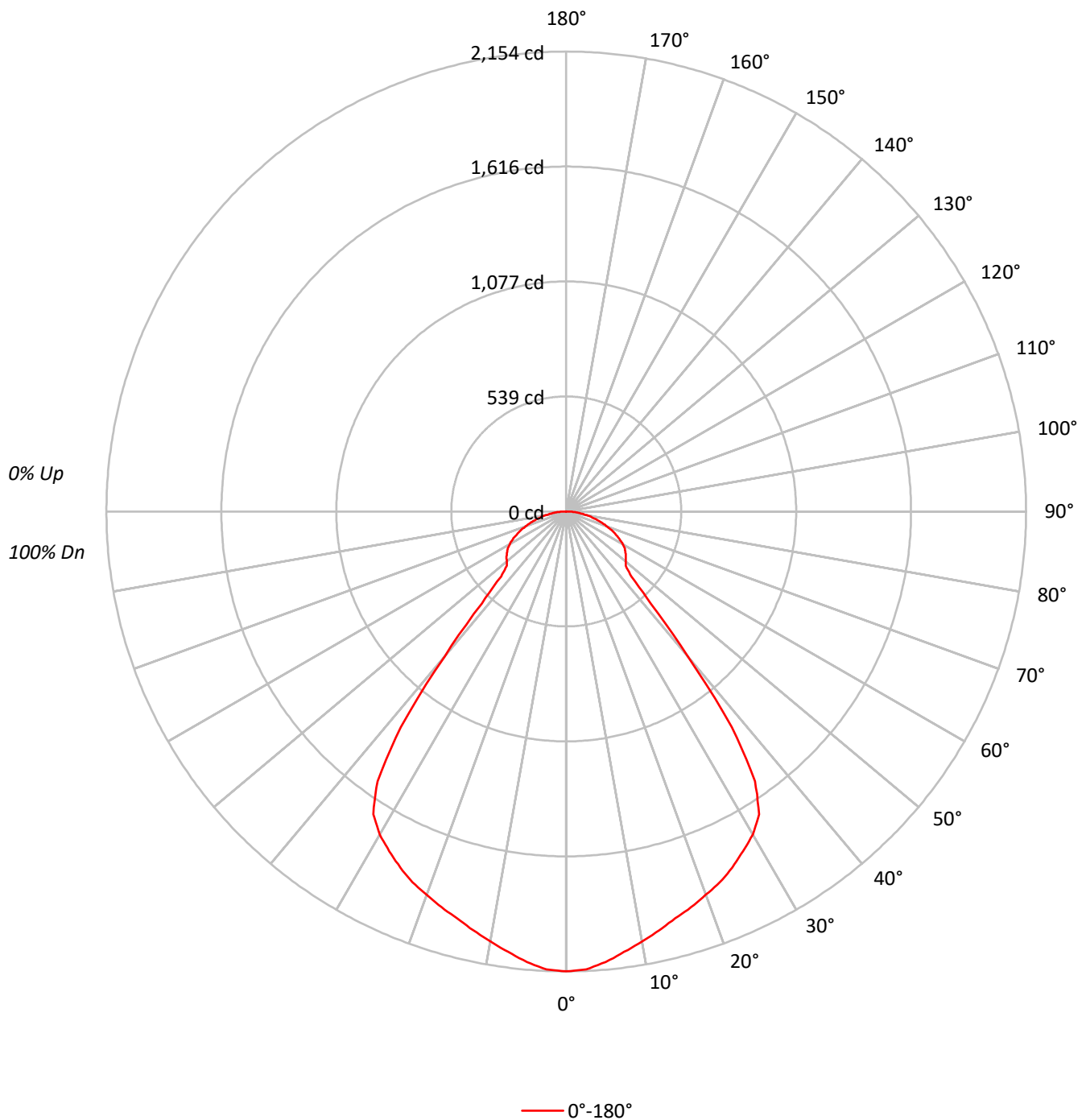
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P979783

CATALOG NUMBER: PRLX-241-935-LL5-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979783

CATALOG NUMBER: PRLX-241-935-LL5-F-U-S-WHTE-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16602
5°	16389
10°	16010
15°	15743
20°	15676
25°	15647
30°	15556
35°	14510
40°	8931
45°	4696
50°	4360
55°	4554
60°	4716
65°	4679
70°	4544
75°	4331
80°	4080
85°	3759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 4718 cd/sqm

TEST NUMBER: P979783

CATALOG NUMBER: PRLX-241-935-LL5-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	5.5
10°-20°	558.2	15.3
20°-30°	847.5	23.2
30°-40°	903.0	24.7
40°-50°	385.8	10.6
50°-60°	302.6	8.3
60°-70°	252.9	6.9
70°-80°	154.1	4.2
80°-90°	48.7	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°	1605.5	44.0
0°-40°	2508.5	68.7
0°-60°	3196.8	87.5
0°-90°	3652.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2154	
5°	2118	200
15°	1972	558
25°	1840	847
35°	1542	903
45°	431	386
55°	339	303
65°	256	253
75°	145	154
85°	42	49
90°	0	

TEST NUMBER: P979783

CATALOG NUMBER: PRLX-241-935-LL5-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2153.6
2.5°	2146.7
5°	2117.9
7.5°	2080.9
10°	2045.2
12.5°	2009.5
15°	1972.5
17.5°	1943.7
20°	1910.8
22.5°	1880.6
25°	1839.5
27.5°	1794.2
30°	1747.5
32.5°	1681.7
35°	1541.8
37.5°	1274.3
40°	887.5
42.5°	585.7
45°	430.7
47.5°	377.2
50°	363.5
52.5°	352.5
55°	338.8
57.5°	325.1
60°	305.9
62.5°	282.6
65°	256.5
67.5°	229.1
70°	201.6
72.5°	172.8
75°	145.4
77.5°	119.3
80°	91.9
82.5°	67.2
85°	42.5
87.5°	23.3
90°	0.0

TEST NUMBER: P979783

CATALOG NUMBER: PRLX-241-935-LL5-F-U-S-WHTE-X

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	15.77	17.11	16.13	17.42	17.73	15.77	17.11	16.13	17.42	17.73
	3H	17.77	18.97	18.15	19.30	19.67	17.77	18.97	18.15	19.30	19.67
	4H	18.53	19.65	18.93	20.00	20.39	18.53	19.65	18.93	20.00	20.39
	6H	19.11	20.15	19.53	20.52	20.91	19.11	20.15	19.53	20.52	20.91
	8H	19.31	20.30	19.74	20.69	21.09	19.31	20.30	19.74	20.69	21.09
	12H	19.45	20.39	19.88	20.78	21.21	19.45	20.39	19.88	20.78	21.21
4H	2H	16.44	17.56	16.84	17.91	18.29	16.44	17.56	16.84	17.91	18.29
	3H	18.64	19.57	19.05	19.98	20.38	18.64	19.57	19.05	19.98	20.38
	4H	19.52	20.36	19.95	20.78	21.22	19.52	20.36	19.95	20.78	21.22
	6H	20.24	20.97	20.70	21.41	21.88	20.24	20.97	20.70	21.41	21.88
	8H	20.49	21.17	20.95	21.62	22.09	20.49	21.17	20.95	21.62	22.09
	12H	20.67	21.28	21.16	21.76	22.23	20.67	21.28	21.16	21.76	22.23
8H	4H	19.84	20.52	20.31	20.97	21.44	19.84	20.52	20.31	20.97	21.44
	6H	20.70	21.26	21.20	21.75	22.23	20.70	21.26	21.20	21.75	22.23
	8H	21.04	21.54	21.55	22.05	22.54	21.04	21.54	21.55	22.05	22.54
	12H	21.31	21.75	21.83	22.25	22.82	21.31	21.75	21.83	22.25	22.82
12H	4H	19.87	20.48	20.35	20.96	21.43	19.87	20.48	20.35	20.96	21.43
	6H	20.76	21.26	21.28	21.78	22.27	20.76	21.26	21.28	21.78	22.27
	8H	21.16	21.60	21.68	22.10	22.67	21.16	21.60	21.68	22.10	22.67