

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: P979861

Luminaire Tested: PRLX-241-940-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL5-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

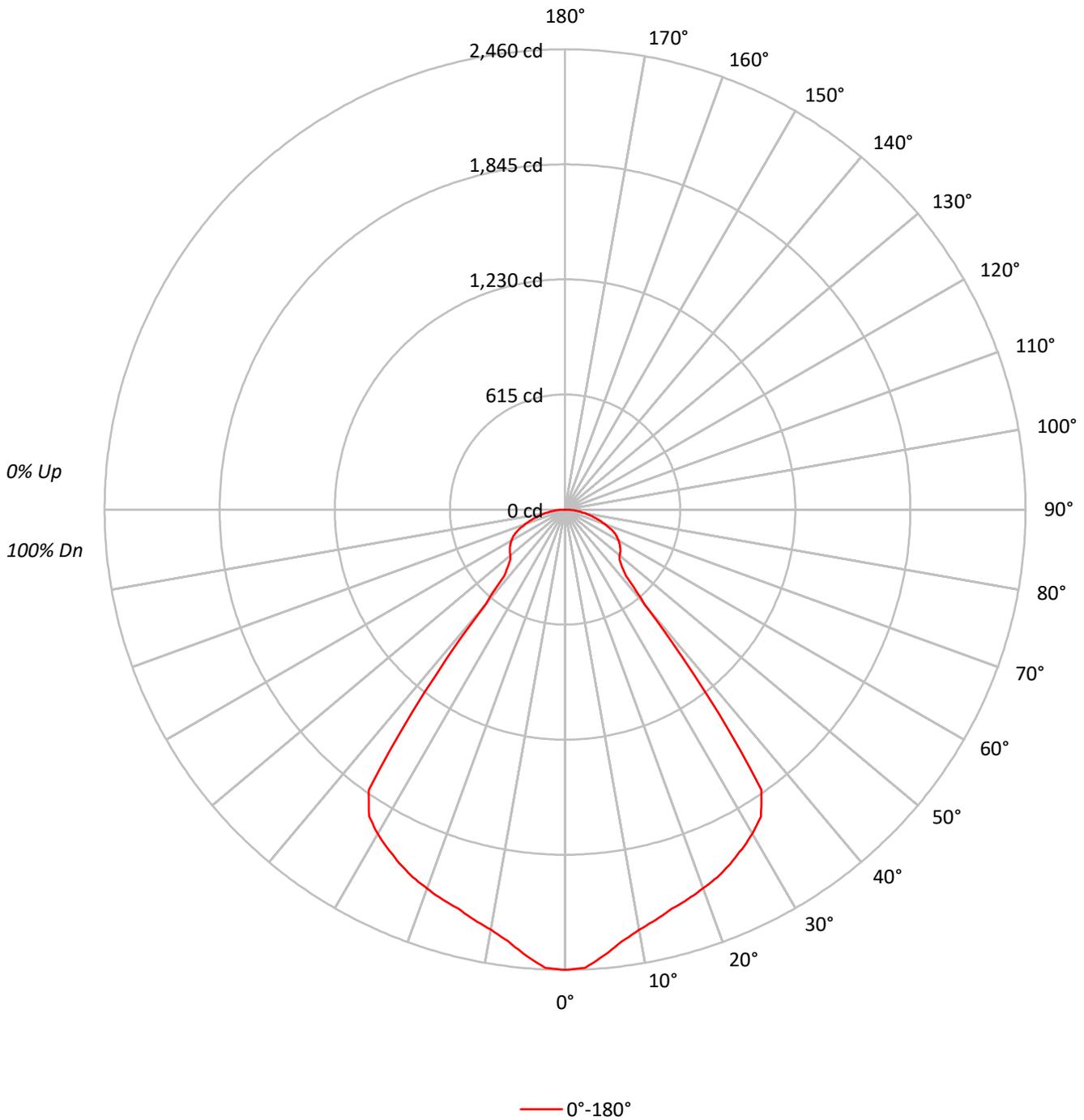
Lumens per Lamp: N/A
Luminaire Lumens: 3969.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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: P979861
CATALOG NUMBER: PRLX-241-940-LL5-C-U-S-WHTE-X

Luminous Intensity Polar Plot





TEST NUMBER: P979861

CATALOG NUMBER: PRLX-241-940-LL5-C-U-S-WHTE-X

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	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18963
5°	18518
10°	17853
15°	17622
20°	17683
25°	17765
30°	17819
35°	17205
40°	6643
45°	4668
50°	4573
55°	4837
60°	5090
65°	5243
70°	5067
75°	4790
80°	4484
85°	4148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 5243 cd/sqm

TEST NUMBER: P979861

CATALOG NUMBER: PRLX-241-940-LL5-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	5.7
10°-20°	625.7	15.8
20°-30°	962.9	24.3
30°-40°	979.5	24.7
40°-50°	350.9	8.8
50°-60°	320.9	8.1
60°-70°	280.4	7.1
70°-80°	170.6	4.3
80°-90°	53.6	1.4
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°	1813.3	45.7
0°-40°	2792.7	70.4
0°-60°	3464.5	87.3
0°-90°	3969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3969.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2460	
5°	2393	225
15°	2208	626
25°	2088	963
35°	1828	979
45°	428	351
55°	360	321
65°	287	280
75°	161	171
85°	47	54
90°	0	

TEST NUMBER: P979861

CATALOG NUMBER: PRLX-241-940-LL5-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2459.8
2.5°	2451.3
5°	2393.0
7.5°	2327.5
10°	2280.6
12.5°	2245.0
15°	2208.0
17.5°	2183.8
20°	2155.4
22.5°	2126.9
25°	2088.5
27.5°	2045.8
30°	2001.7
32.5°	1946.2
35°	1828.2
37.5°	1237.7
40°	660.1
42.5°	480.9
45°	428.2
47.5°	395.5
50°	381.3
52.5°	371.3
55°	359.9
57.5°	345.7
60°	330.1
62.5°	311.6
65°	287.4
67.5°	256.1
70°	224.8
72.5°	192.1
75°	160.8
77.5°	130.9
80°	101.0
82.5°	74.0
85°	46.9
87.5°	25.6
90°	0.0



TEST NUMBER: P979861
 CATALOG NUMBER: PRLX-241-940-LL5-C-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	15.93	17.26	16.30	17.57	17.88	15.93	17.26	16.30	17.57	17.88
	3H	18.09	19.28	18.47	19.61	19.97	18.09	19.28	18.47	19.61	19.97
	4H	18.87	19.99	19.28	20.34	20.72	18.87	19.99	19.28	20.34	20.72
	6H	19.46	20.49	19.88	20.86	21.25	19.46	20.49	19.88	20.86	21.25
	8H	19.67	20.64	20.10	21.03	21.43	19.67	20.64	20.10	21.03	21.43
	12H	19.81	20.74	20.24	21.12	21.55	19.81	20.74	20.24	21.12	21.55
4H	2H	16.68	17.79	17.08	18.14	18.53	16.68	17.79	17.08	18.14	18.53
	3H	19.00	19.93	19.41	20.33	20.73	19.00	19.93	19.41	20.33	20.73
	4H	19.90	20.73	20.33	21.15	21.59	19.90	20.73	20.33	21.15	21.59
	6H	20.61	21.34	21.07	21.78	22.25	20.61	21.34	21.07	21.78	22.25
	8H	20.86	21.54	21.33	21.98	22.45	20.86	21.54	21.33	21.98	22.45
	12H	21.05	21.65	21.53	22.13	22.60	21.05	21.65	21.53	22.13	22.60
8H	4H	20.22	20.90	20.69	21.34	21.81	20.22	20.90	20.69	21.34	21.81
	6H	21.07	21.63	21.57	22.12	22.60	21.07	21.63	21.57	22.12	22.60
	8H	21.41	21.91	21.93	22.42	22.91	21.41	21.91	21.93	22.42	22.91
	12H	21.69	22.13	22.21	22.62	23.19	21.69	22.13	22.21	22.62	23.19
12H	4H	20.25	20.85	20.73	21.33	21.80	20.25	20.85	20.73	21.33	21.80
	6H	21.14	21.63	21.66	22.15	22.64	21.14	21.63	21.66	22.15	22.64
	8H	21.54	21.97	22.06	22.47	23.04	21.54	21.97	22.06	22.47	23.04