

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: P979560

Luminaire Tested: PRLX-240-940-LL7-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-LL7-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

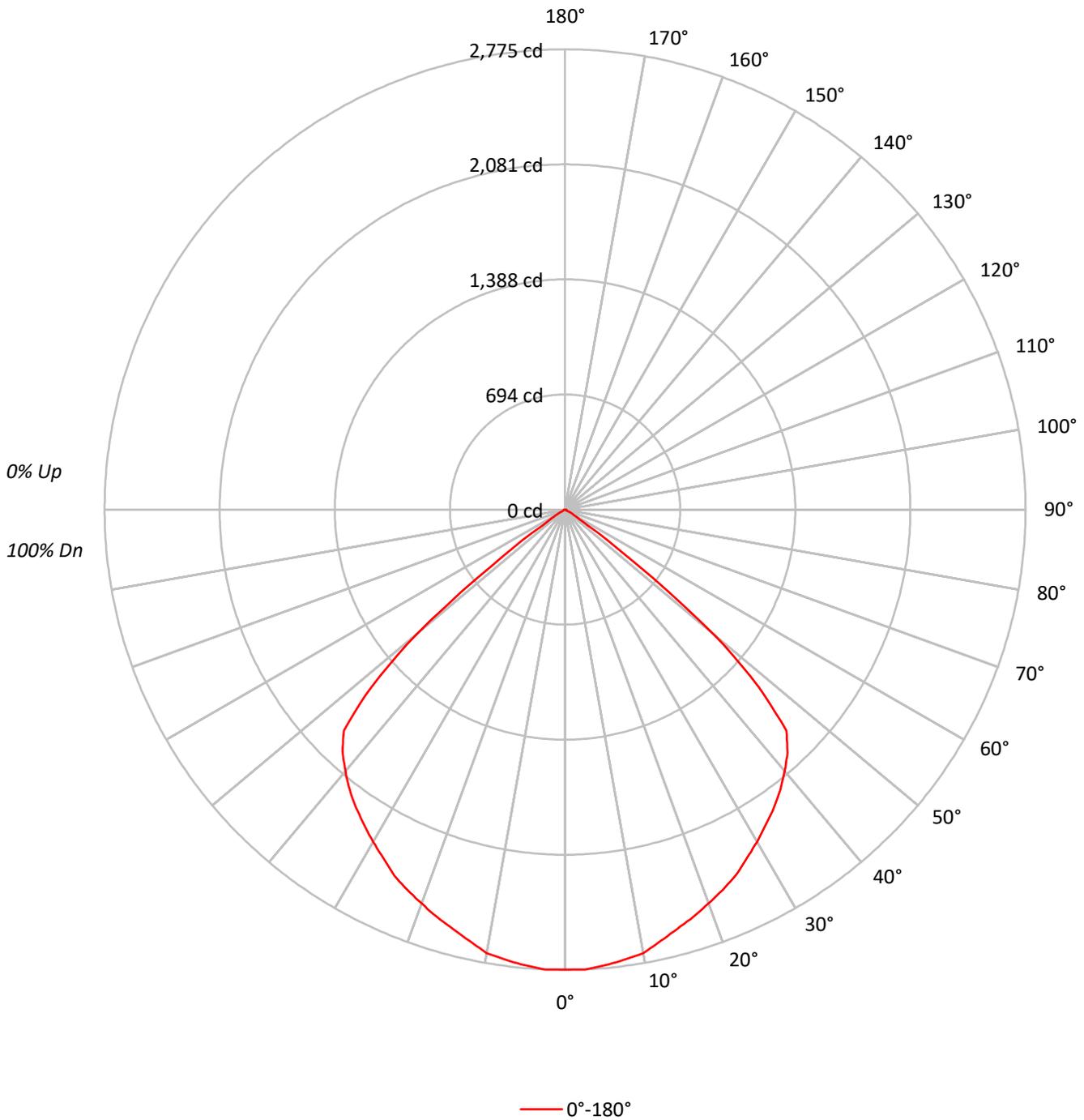
Lumens per Lamp: N/A
Luminaire Lumens: 5178.7 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P979560
CATALOG NUMBER: PRLX-240-940-LL7-C-U-S-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P979560

CATALOG NUMBER: PRLX-240-940-LL7-C-U-S-BLAK-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	112	109	106	103	110	107	104	102	103	100	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	37		47	41	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27920
5°	27880
10°	27760
15°	27270
20°	27079
25°	27045
30°	26887
35°	26978
40°	27057
45°	26843
50°	18370
55°	2863
60°	707
65°	148
70°	183
75°	241
80°	360
85°	243

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26843 cd/sqm

TEST NUMBER: P979560

CATALOG NUMBER: PRLX-240-940-LL7-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	5.1
10°-20°	739.7	14.3
20°-30°	1120.2	21.6
30°-40°	1373.3	26.5
40°-50°	1359.6	26.3
50°-60°	303.2	5.9
60°-70°	11.1	0.2
70°-80°	6.6	0.1
80°-90°	3.1	0.1
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°	2121.8	41.0
0°-40°	3495.1	67.5
0°-60°	5157.9	99.6
0°-90°	5178.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5178.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2773	
5°	2758	262
15°	2616	740
25°	2434	1120
35°	2195	1373
45°	1885	1360
55°	163	303
65°	6	11
75°	6	7
85°	2	3
90°	0	

TEST NUMBER: P979560

CATALOG NUMBER: PRLX-240-940-LL7-C-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2772.9
2.5°	2775.0
5°	2758.4
7.5°	2737.8
10°	2715.1
12.5°	2663.5
15°	2616.0
17.5°	2574.7
20°	2527.2
22.5°	2481.8
25°	2434.3
27.5°	2370.3
30°	2312.5
32.5°	2252.6
35°	2194.8
37.5°	2130.8
40°	2058.5
42.5°	1984.2
45°	1885.1
47.5°	1583.6
50°	1172.7
52.5°	547.1
55°	163.1
57.5°	78.5
60°	35.1
62.5°	12.4
65°	6.2
67.5°	6.2
70°	6.2
72.5°	6.2
75°	6.2
77.5°	6.2
80°	6.2
82.5°	4.1
85°	2.1
87.5°	2.1
90°	0.0



TEST NUMBER: P979560
 CATALOG NUMBER: PRLX-240-940-LL7-C-U-S-BLAK-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	5.39	6.69	5.76	7.00	7.32	5.39	6.69	5.76	7.00	7.32
	3H	5.30	6.44	5.68	6.77	7.13	5.30	6.44	5.68	6.77	7.13
	4H	5.28	6.33	5.68	6.68	7.07	5.28	6.33	5.68	6.68	7.07
	6H	5.30	6.26	5.71	6.63	7.03	5.30	6.26	5.71	6.63	7.03
	8H	5.31	6.21	5.74	6.61	7.01	5.31	6.21	5.74	6.61	7.01
	12H	5.29	6.16	5.72	6.54	6.97	5.29	6.16	5.72	6.54	6.97
4H	2H	5.19	6.25	5.60	6.60	6.98	5.19	6.25	5.60	6.60	6.98
	3H	5.13	5.97	5.54	6.38	6.78	5.13	5.97	5.54	6.38	6.78
	4H	5.12	5.87	5.56	6.29	6.74	5.12	5.87	5.56	6.29	6.74
	6H	5.22	5.86	5.68	6.31	6.78	5.22	5.86	5.68	6.31	6.78
	8H	5.24	5.85	5.72	6.29	6.77	5.24	5.85	5.72	6.29	6.77
	12H	5.25	5.78	5.73	6.26	6.73	5.25	5.78	5.73	6.26	6.73
8H	4H	5.04	5.64	5.51	6.08	6.56	5.04	5.64	5.51	6.08	6.56
	6H	5.18	5.67	5.68	6.17	6.65	5.18	5.67	5.68	6.17	6.65
	8H	5.24	5.69	5.76	6.20	6.70	5.24	5.69	5.76	6.20	6.70
	12H	5.27	5.67	5.78	6.17	6.74	5.27	5.67	5.78	6.17	6.74
12H	4H	5.00	5.53	5.49	6.02	6.49	5.00	5.53	5.49	6.02	6.49
	6H	5.15	5.60	5.67	6.11	6.61	5.15	5.60	5.67	6.11	6.61
	8H	5.24	5.64	5.75	6.14	6.71	5.24	5.64	5.75	6.14	6.71