

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: P979400

Luminaire Tested: PRLX-240-930-LL7-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979400
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-240-930-LL7-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

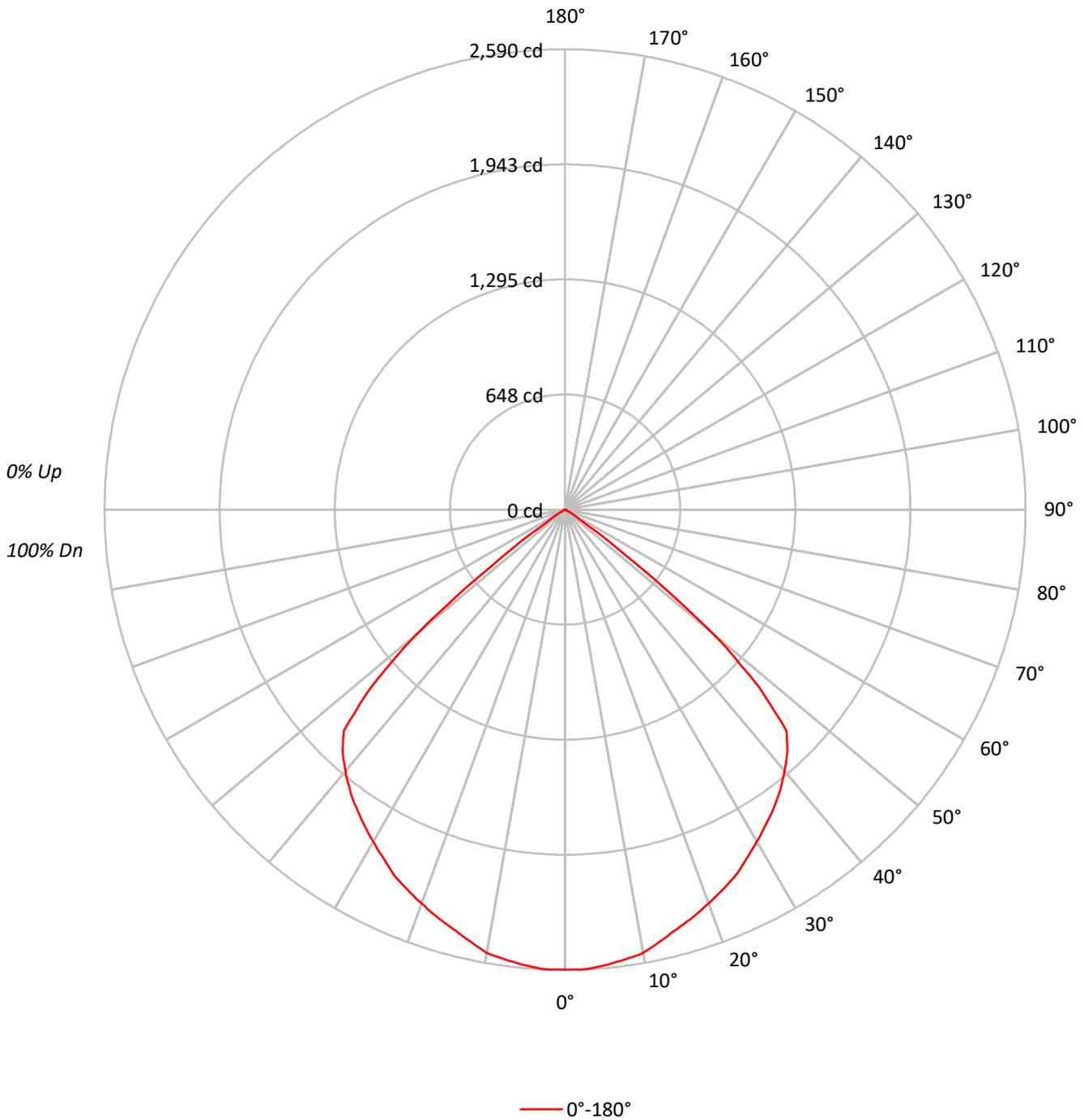
Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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: P979400
CATALOG NUMBER: PRLX-240-930-LL7-C-U-S-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P979400

CATALOG NUMBER: PRLX-240-930-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°	26057
5°	26020
10°	25906
15°	25449
20°	25272
25°	25240
30°	25092
35°	25178
40°	25251
45°	25051
50°	17145
55°	2672
60°	661
65°	138
70°	171
75°	226
80°	336
85°	220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25051 cd/sqm

TEST NUMBER: P979400

CATALOG NUMBER: PRLX-240-930-LL7-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	5.1
10°-20°	690.3	14.3
20°-30°	1045.4	21.6
30°-40°	1281.6	26.5
40°-50°	1268.8	26.3
50°-60°	283.0	5.9
60°-70°	10.4	0.2
70°-80°	6.1	0.1
80°-90°	2.9	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°	1980.2	41.0
0°-40°	3261.8	67.5
0°-60°	4813.5	99.6
0°-90°	4833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2588	
5°	2574	244
15°	2441	690
25°	2272	1045
35°	2048	1282
45°	1759	1269
55°	152	283
65°	6	10
75°	6	6
85°	2	3
90°	0	

TEST NUMBER: P979400

CATALOG NUMBER: PRLX-240-930-LL7-C-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2587.8
2.5°	2589.7
5°	2574.3
7.5°	2555.0
10°	2533.8
12.5°	2485.7
15°	2441.3
17.5°	2402.8
20°	2358.5
22.5°	2316.1
25°	2271.8
27.5°	2212.0
30°	2158.1
32.5°	2102.2
35°	2048.3
37.5°	1988.5
40°	1921.1
42.5°	1851.7
45°	1759.2
47.5°	1477.9
50°	1094.5
52.5°	510.6
55°	152.2
57.5°	73.2
60°	32.8
62.5°	11.6
65°	5.8
67.5°	5.8
70°	5.8
72.5°	5.8
75°	5.8
77.5°	5.8
80°	5.8
82.5°	3.9
85°	1.9
87.5°	1.9
90°	0.0



TEST NUMBER: P979400
 CATALOG NUMBER: PRLX-240-930-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	5.15	6.45	5.51	6.76	7.07	5.15	6.45	5.51	6.76	7.07
	3H	5.06	6.19	5.44	6.52	6.89	5.06	6.19	5.44	6.52	6.89
	4H	5.03	6.09	5.44	6.44	6.82	5.03	6.09	5.44	6.44	6.82
	6H	5.06	6.02	5.47	6.39	6.78	5.06	6.02	5.47	6.39	6.78
	8H	5.06	5.97	5.49	6.36	6.77	5.06	5.97	5.49	6.36	6.77
	12H	5.05	5.92	5.48	6.30	6.73	5.05	5.92	5.48	6.30	6.73
4H	2H	4.95	6.00	5.35	6.35	6.74	4.95	6.00	5.35	6.35	6.74
	3H	4.88	5.73	5.30	6.13	6.54	4.88	5.73	5.30	6.13	6.54
	4H	4.88	5.63	5.32	6.05	6.49	4.88	5.63	5.32	6.05	6.49
	6H	4.97	5.62	5.44	6.06	6.53	4.97	5.62	5.44	6.06	6.53
	8H	5.00	5.60	5.47	6.05	6.52	5.00	5.60	5.47	6.05	6.52
	12H	5.00	5.53	5.49	6.02	6.49	5.00	5.53	5.49	6.02	6.49
8H	4H	4.79	5.39	5.26	5.84	6.31	4.79	5.39	5.26	5.84	6.31
	6H	4.94	5.43	5.44	5.93	6.41	4.94	5.43	5.44	5.93	6.41
	8H	5.00	5.45	5.52	5.96	6.46	5.00	5.45	5.52	5.96	6.46
	12H	5.03	5.43	5.54	5.93	6.50	5.03	5.43	5.54	5.93	6.50
12H	4H	4.76	5.29	5.25	5.77	6.25	4.76	5.29	5.25	5.77	6.25
	6H	4.91	5.35	5.43	5.87	6.36	4.91	5.35	5.43	5.87	6.36
	8H	5.00	5.40	5.52	5.90	6.47	5.00	5.40	5.52	5.90	6.47