

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: P979800

Luminaire Tested: PRLX-241-935-LL7-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-LL7-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

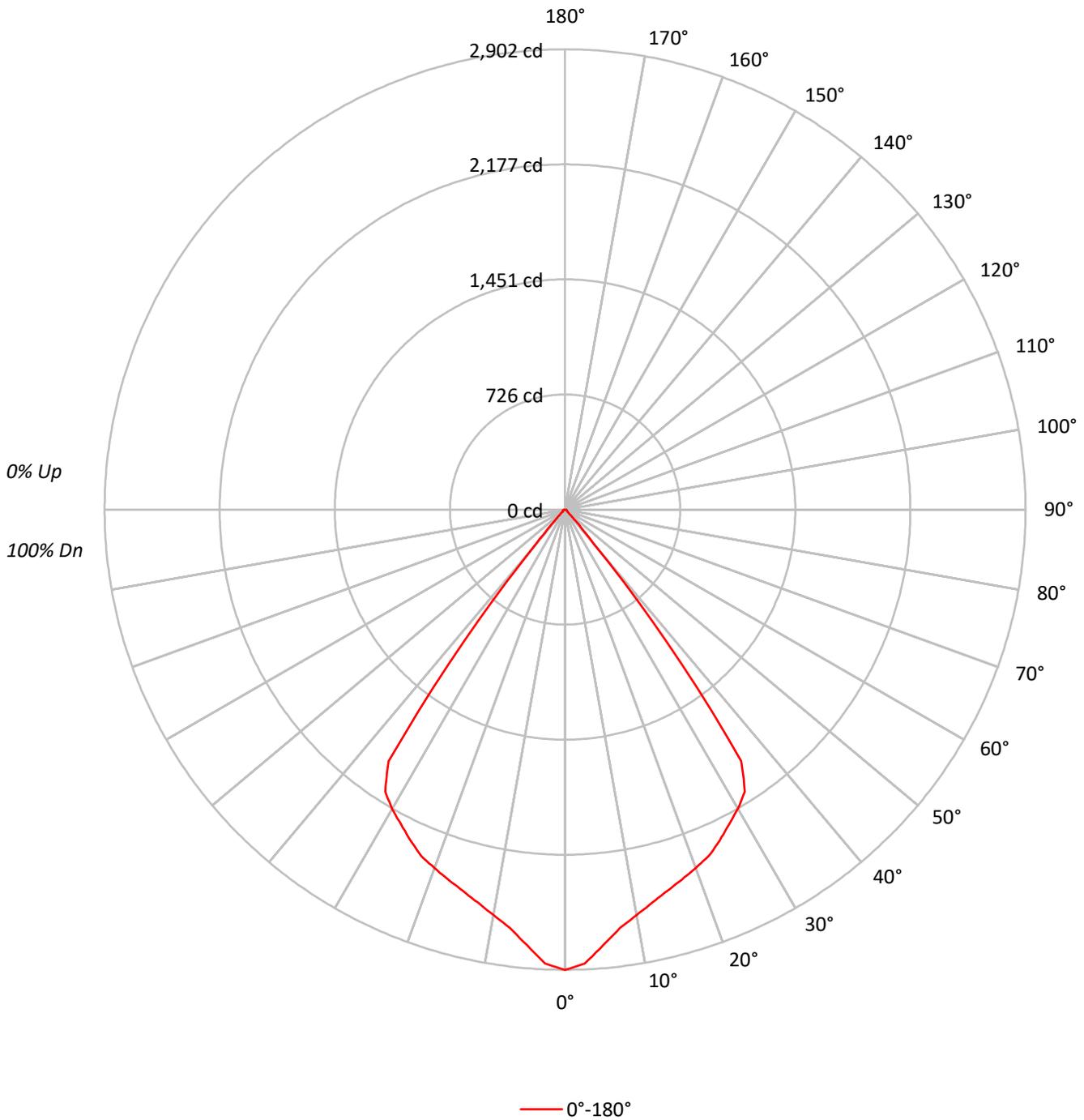
Lumens per Lamp: N/A
Luminaire Lumens: 3085.7 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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: P979800
CATALOG NUMBER: PRLX-241-935-LL7-C-U-S-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P979800

CATALOG NUMBER: PRLX-241-935-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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	63	57	53	62	57	53	61	57	53	61	56	53	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22375
5°	21336
10°	20321
15°	19860
20°	19729
25°	19591
30°	19386
35°	18229
40°	2805
45°	456
50°	215
55°	214
60°	245
65°	254
70°	225
75°	238
80°	178
85°	177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 456 cd/sqm

TEST NUMBER: P979800

CATALOG NUMBER: PRLX-241-935-LL7-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	8.4
10°-20°	704.1	22.8
20°-30°	1061.0	34.4
30°-40°	967.7	31.4
40°-50°	56.9	1.8
50°-60°	14.5	0.5
60°-70°	13.0	0.4
70°-80°	7.7	0.2
80°-90°	2.7	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°	2023.2	65.6
0°-40°	2990.9	96.9
0°-60°	3062.3	99.2
0°-90°	3085.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2902	
5°	2757	258
15°	2488	704
25°	2303	1061
35°	1937	968
45°	42	57
55°	16	14
65°	14	13
75°	8	8
85°	2	3
90°	0	



TEST NUMBER: P979800

CATALOG NUMBER: PRLX-241-935-LL7-C-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2902.4
2.5°	2864.6
5°	2757.1
7.5°	2659.6
10°	2595.9
12.5°	2538.1
15°	2488.4
17.5°	2446.6
20°	2404.8
22.5°	2365.0
25°	2303.2
27.5°	2237.6
30°	2177.8
32.5°	2108.2
35°	1937.0
37.5°	1043.1
40°	278.7
42.5°	93.6
45°	41.8
47.5°	21.9
50°	17.9
52.5°	15.9
55°	15.9
57.5°	15.9
60°	15.9
62.5°	13.9
65°	13.9
67.5°	11.9
70°	10.0
72.5°	8.0
75°	8.0
77.5°	6.0
80°	4.0
82.5°	4.0
85°	2.0
87.5°	2.0
90°	0.0



TEST NUMBER: P979800
 CATALOG NUMBER: PRLX-241-935-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30
	6H	0.00	0.00	0.00	0.36	0.76	0.00	0.00	0.00	0.36	0.76
	8H	0.00	0.17	0.00	0.56	0.97	0.00	0.17	0.00	0.56	0.97
	12H	0.00	0.27	0.10	0.66	1.09	0.00	0.27	0.10	0.66	1.09
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25
	4H	0.00	0.31	0.20	0.73	1.18	0.00	0.31	0.20	0.73	1.18
	6H	0.35	0.82	0.82	1.27	1.74	0.35	0.82	0.82	1.27	1.74
	8H	0.63	1.06	1.11	1.51	1.99	0.63	1.06	1.11	1.51	1.99
	12H	0.81	1.18	1.30	1.67	2.15	0.81	1.18	1.30	1.67	2.15
8H	4H	0.02	0.45	0.50	0.91	1.38	0.02	0.45	0.50	0.91	1.38
	6H	0.73	1.07	1.25	1.58	2.06	0.73	1.07	1.25	1.58	2.06
	8H	1.13	1.43	1.67	1.96	2.46	1.13	1.43	1.67	1.96	2.46
	12H	1.41	1.67	1.94	2.17	2.75	1.41	1.67	1.94	2.17	2.75
12H	4H	0.01	0.38	0.51	0.87	1.35	0.01	0.38	0.51	0.87	1.35
	6H	0.78	1.08	1.32	1.61	2.10	0.78	1.08	1.32	1.61	2.10
	8H	1.26	1.51	1.78	2.01	2.59	1.26	1.51	1.78	2.01	2.59