

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: P979480

Luminaire Tested: PRLX-240-935-LL7-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979480
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-240-935-LL7-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

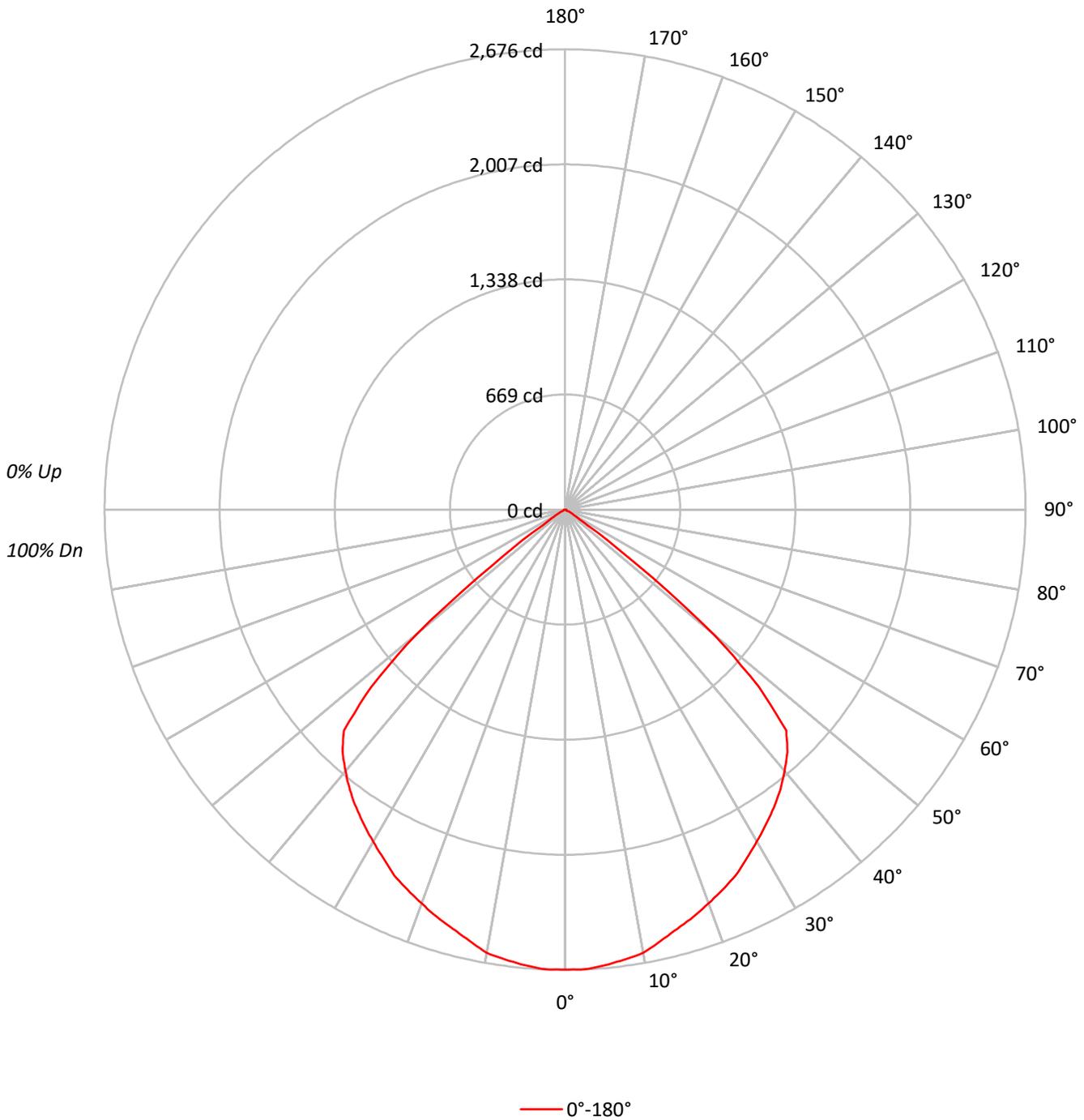
Lumens per Lamp: N/A
Luminaire Lumens: 4993.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91			91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82			82	
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73	
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65	
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58	
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43			43	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39	
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26919
5°	26882
10°	26765
15°	26292
20°	26109
25°	26075
30°	25923
35°	26011
40°	26087
45°	25881
50°	17712
55°	2761
60°	681
65°	143
70°	177
75°	233
80°	348
85°	231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	5.1
10°-20°	713.2	14.3
20°-30°	1080.1	21.6
30°-40°	1324.1	26.5
40°-50°	1310.9	26.3
50°-60°	292.3	5.9
60°-70°	10.7	0.2
70°-80°	6.3	0.1
80°-90°	3.0	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°	2045.8	41.0
0°-40°	3369.8	67.5
0°-60°	4973.0	99.6
0°-90°	4993.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2674	
5°	2660	253
15°	2522	713
25°	2347	1080
35°	2116	1324
45°	1818	1311
55°	157	292
65°	6	11
75°	6	6
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2673.5
2.5°	2675.5
5°	2659.6
7.5°	2639.7
10°	2617.8
12.5°	2568.0
15°	2522.2
17.5°	2482.4
20°	2436.6
22.5°	2392.8
25°	2347.0
27.5°	2285.3
30°	2229.6
32.5°	2171.9
35°	2116.1
37.5°	2054.4
40°	1984.7
42.5°	1913.1
45°	1817.5
47.5°	1526.9
50°	1130.7
52.5°	527.5
55°	157.3
57.5°	75.6
60°	33.8
62.5°	11.9
65°	6.0
67.5°	6.0
70°	6.0
72.5°	6.0
75°	6.0
77.5°	6.0
80°	6.0
82.5°	4.0
85°	2.0
87.5°	2.0
90°	0.0



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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	5.26	6.56	5.62	6.87	7.18	5.26	6.56	5.62	6.87	7.18
	3H	5.17	6.30	5.55	6.63	7.00	5.17	6.30	5.55	6.63	7.00
	4H	5.14	6.20	5.55	6.55	6.93	5.14	6.20	5.55	6.55	6.93
	6H	5.17	6.13	5.58	6.50	6.89	5.17	6.13	5.58	6.50	6.89
	8H	5.17	6.08	5.60	6.47	6.88	5.17	6.08	5.60	6.47	6.88
	12H	5.16	6.03	5.59	6.41	6.84	5.16	6.03	5.59	6.41	6.84
4H	2H	5.06	6.11	5.46	6.46	6.85	5.06	6.11	5.46	6.46	6.85
	3H	4.99	5.84	5.41	6.24	6.65	4.99	5.84	5.41	6.24	6.65
	4H	4.99	5.74	5.43	6.16	6.60	4.99	5.74	5.43	6.16	6.60
	6H	5.09	5.73	5.55	6.18	6.64	5.09	5.73	5.55	6.18	6.64
	8H	5.11	5.72	5.59	6.16	6.64	5.11	5.72	5.59	6.16	6.64
	12H	5.12	5.65	5.60	6.13	6.61	5.12	5.65	5.60	6.13	6.61
8H	4H	4.90	5.50	5.37	5.95	6.42	4.90	5.50	5.37	5.95	6.42
	6H	5.05	5.54	5.55	6.04	6.52	5.05	5.54	5.55	6.04	6.52
	8H	5.11	5.56	5.63	6.08	6.57	5.11	5.56	5.63	6.08	6.57
	12H	5.14	5.54	5.66	6.04	6.61	5.14	5.54	5.66	6.04	6.61
12H	4H	4.87	5.40	5.36	5.88	6.36	4.87	5.40	5.36	5.88	6.36
	6H	5.02	5.47	5.54	5.98	6.48	5.02	5.47	5.54	5.98	6.48
	8H	5.11	5.51	5.63	6.01	6.58	5.11	5.51	5.63	6.01	6.58