

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: P979482

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-LL7-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

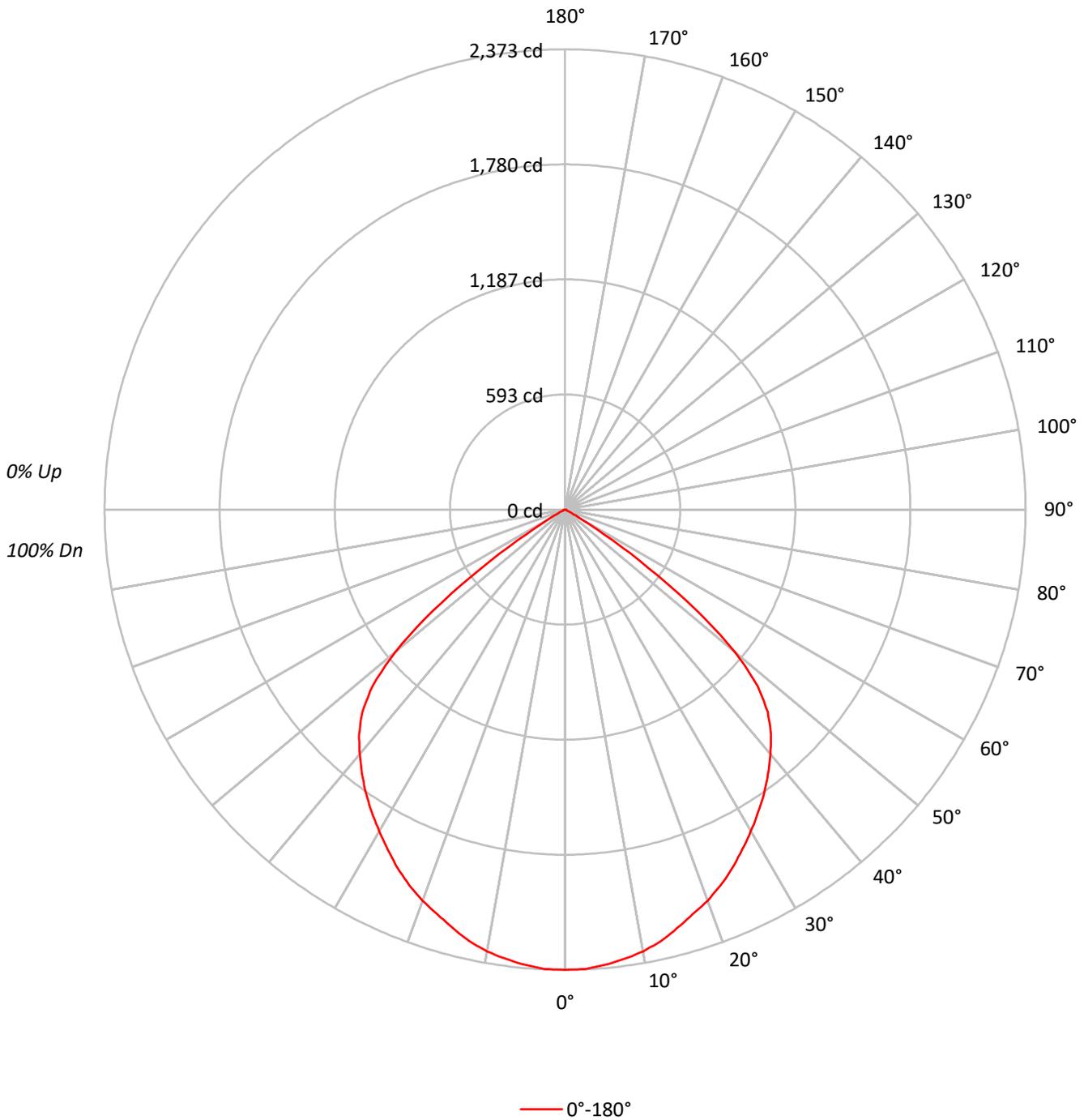
Lumens per Lamp: N/A
Luminaire Lumens: 4541.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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									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	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	106	104	101	102	100	98	99	97	95	95	94	92	90													90															
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81													81															
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72													72															
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64													64															
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57													57															
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51													51															
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46													46															
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41													41															
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37													37															
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34													34															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23893
5°	23823
10°	23651
15°	23283
20°	22995
25°	22670
30°	22266
35°	21974
40°	21639
45°	21033
50°	17931
55°	9157
60°	1484
65°	191
70°	177
75°	233
80°	232
85°	231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	4.9
10°-20°	630.4	13.9
20°-30°	939.2	20.7
30°-40°	1117.7	24.6
40°-50°	1115.7	24.6
50°-60°	489.4	10.8
60°-70°	17.0	0.4
70°-80°	6.1	0.1
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°	1793.2	39.5
0°-40°	2910.9	64.1
0°-60°	4516.0	99.4
0°-90°	4541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4541.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2373	
5°	2357	224
15°	2234	630
25°	2040	939
35°	1788	1118
45°	1477	1116
55°	522	489
65°	8	17
75°	6	6
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2372.9
2.5°	2370.9
5°	2357.0
7.5°	2337.1
10°	2313.2
12.5°	2279.4
15°	2233.6
17.5°	2187.8
20°	2146.0
22.5°	2096.2
25°	2040.5
27.5°	1976.8
30°	1915.1
32.5°	1851.4
35°	1787.7
37.5°	1718.0
40°	1646.3
42.5°	1570.7
45°	1477.1
47.5°	1345.7
50°	1144.7
52.5°	860.0
55°	521.6
57.5°	234.9
60°	73.7
62.5°	15.9
65°	8.0
67.5°	6.0
70°	6.0
72.5°	6.0
75°	6.0
77.5°	6.0
80°	4.0
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	13.33	14.68	13.69	14.99	15.30	13.33	14.68	13.69	14.99	15.30
	3H	13.21	14.39	13.59	14.72	15.08	13.21	14.39	13.59	14.72	15.08
	4H	13.14	14.23	13.54	14.58	14.97	13.14	14.23	13.54	14.58	14.97
	6H	13.07	14.07	13.49	14.44	14.84	13.07	14.07	13.49	14.44	14.84
	8H	13.03	13.98	13.46	14.37	14.78	13.03	13.98	13.46	14.37	14.78
	12H	12.99	13.90	13.43	14.28	14.71	12.99	13.90	13.43	14.28	14.71
4H	2H	13.13	14.23	13.54	14.58	14.96	13.13	14.23	13.54	14.58	14.96
	3H	13.01	13.89	13.43	14.29	14.70	13.01	13.89	13.43	14.29	14.70
	4H	12.94	13.71	13.37	14.13	14.57	12.94	13.71	13.37	14.13	14.57
	6H	12.87	13.53	13.33	13.98	14.45	12.87	13.53	13.33	13.98	14.45
	8H	12.81	13.44	13.28	13.89	14.36	12.81	13.44	13.28	13.89	14.36
	12H	12.77	13.32	13.26	13.81	14.28	12.77	13.32	13.26	13.81	14.28
8H	4H	12.80	13.42	13.27	13.87	14.34	12.80	13.42	13.27	13.87	14.34
	6H	12.71	13.22	13.21	13.72	14.20	12.71	13.22	13.21	13.72	14.20
	8H	12.65	13.12	13.17	13.63	14.12	12.65	13.12	13.17	13.63	14.12
	12H	12.60	13.03	13.12	13.52	14.09	12.60	13.03	13.12	13.52	14.09
12H	4H	12.75	13.30	13.24	13.78	14.26	12.75	13.30	13.24	13.78	14.26
	6H	12.64	13.11	13.16	13.62	14.11	12.64	13.11	13.16	13.62	14.11
	8H	12.60	13.02	13.11	13.52	14.09	12.60	13.02	13.11	13.52	14.09