

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: P979332

Luminaire Tested: PRLX-240-927-LL8-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979332
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-240-927-LL8-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

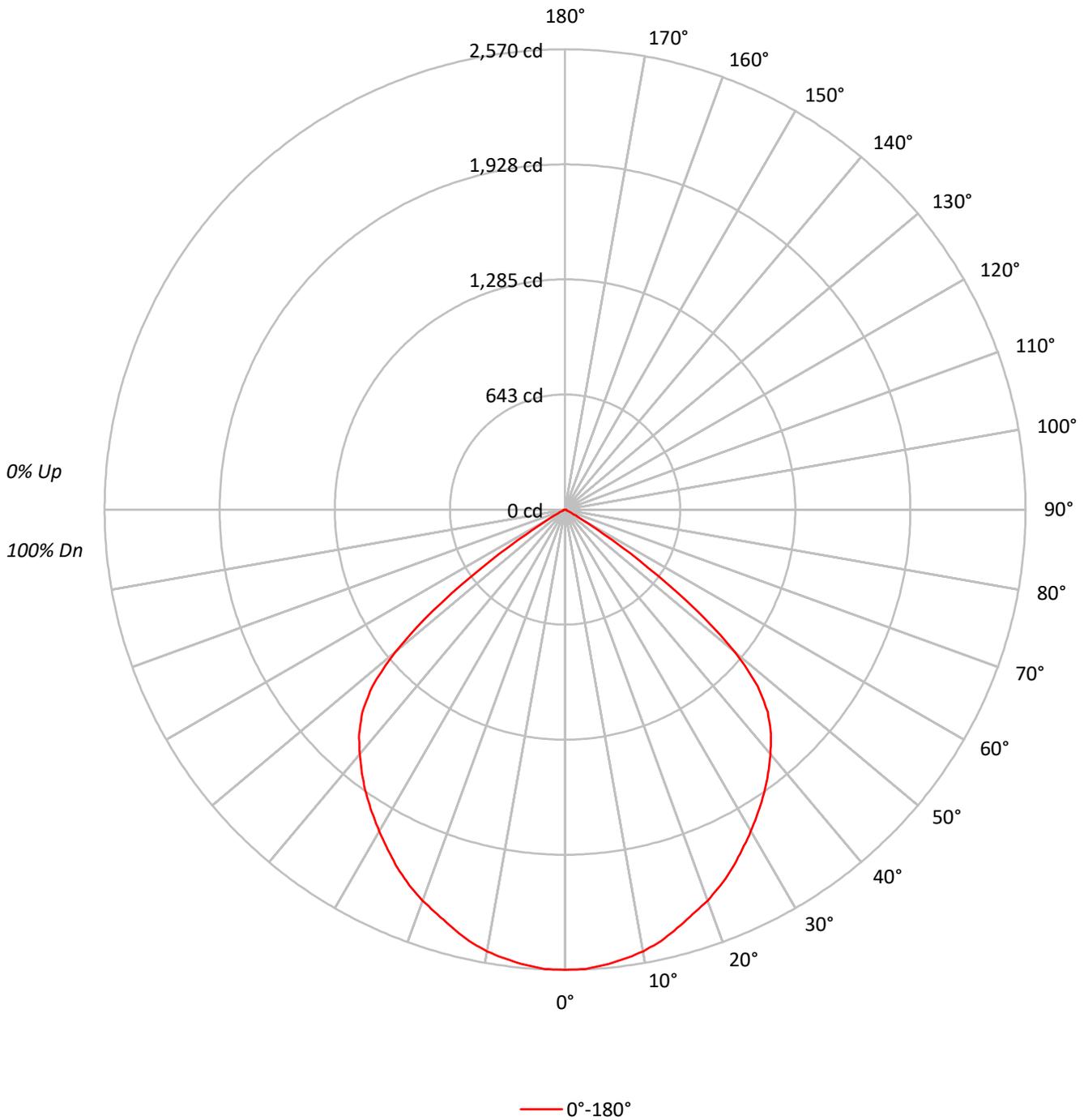
Lumens per Lamp: N/A
Luminaire Lumens: 4918.7 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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°	25876
5°	25800
10°	25614
15°	25215
20°	24903
25°	24551
30°	24114
35°	23797
40°	23435
45°	22779
50°	19419
55°	9917
60°	1607
65°	205
70°	191
75°	253
80°	249
85°	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	4.9
10°-20°	682.7	13.9
20°-30°	1017.2	20.7
30°-40°	1210.5	24.6
40°-50°	1208.3	24.6
50°-60°	530.0	10.8
60°-70°	18.4	0.4
70°-80°	6.6	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°	1942.0	39.5
0°-40°	3152.4	64.1
0°-60°	4890.8	99.4
0°-90°	4918.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2570	
5°	2553	242
15°	2419	683
25°	2210	1017
35°	1936	1210
45°	1600	1208
55°	565	530
65°	9	18
75°	6	7
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2569.9
2.5°	2567.7
5°	2552.6
7.5°	2531.1
10°	2505.2
12.5°	2468.5
15°	2418.9
17.5°	2369.4
20°	2324.1
22.5°	2270.2
25°	2209.8
27.5°	2140.8
30°	2074.0
32.5°	2005.0
35°	1936.0
37.5°	1860.6
40°	1782.9
42.5°	1701.0
45°	1599.7
47.5°	1457.4
50°	1239.7
52.5°	931.4
55°	564.9
57.5°	254.4
60°	79.8
62.5°	17.2
65°	8.6
67.5°	6.5
70°	6.5
72.5°	6.5
75°	6.5
77.5°	6.5
80°	4.3
82.5°	4.3
85°	2.2
87.5°	2.2
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	13.61	14.95	13.97	15.27	15.58	13.61	14.95	13.97	15.27	15.58
	3H	13.48	14.66	13.86	14.99	15.36	13.48	14.66	13.86	14.99	15.36
	4H	13.42	14.51	13.82	14.86	15.25	13.42	14.51	13.82	14.86	15.25
	6H	13.35	14.35	13.76	14.72	15.11	13.35	14.35	13.76	14.72	15.11
	8H	13.31	14.26	13.74	14.65	15.05	13.31	14.26	13.74	14.65	15.05
	12H	13.27	14.17	13.70	14.56	14.99	13.27	14.17	13.70	14.56	14.99
4H	2H	13.41	14.50	13.81	14.85	15.24	13.41	14.50	13.81	14.85	15.24
	3H	13.29	14.17	13.70	14.57	14.97	13.29	14.17	13.70	14.57	14.97
	4H	13.21	13.99	13.65	14.41	14.85	13.21	13.99	13.65	14.41	14.85
	6H	13.14	13.81	13.61	14.26	14.72	13.14	13.81	13.61	14.26	14.72
	8H	13.09	13.72	13.56	14.16	14.63	13.09	13.72	13.56	14.16	14.63
	12H	13.05	13.60	13.53	14.08	14.56	13.05	13.60	13.53	14.08	14.56
8H	4H	13.07	13.70	13.54	14.15	14.62	13.07	13.70	13.54	14.15	14.62
	6H	12.98	13.50	13.49	13.99	14.48	12.98	13.50	13.49	13.99	14.48
	8H	12.92	13.39	13.45	13.91	14.40	12.92	13.39	13.45	13.91	14.40
	12H	12.88	13.30	13.40	13.80	14.37	12.88	13.30	13.40	13.80	14.37
12H	4H	13.03	13.58	13.51	14.06	14.54	13.03	13.58	13.51	14.06	14.54
	6H	12.92	13.38	13.44	13.90	14.39	12.92	13.38	13.44	13.90	14.39
	8H	12.88	13.30	13.39	13.79	14.36	12.88	13.30	13.39	13.79	14.36