

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979652

Luminaire Tested: PRLX-241-927-74L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-927-74L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

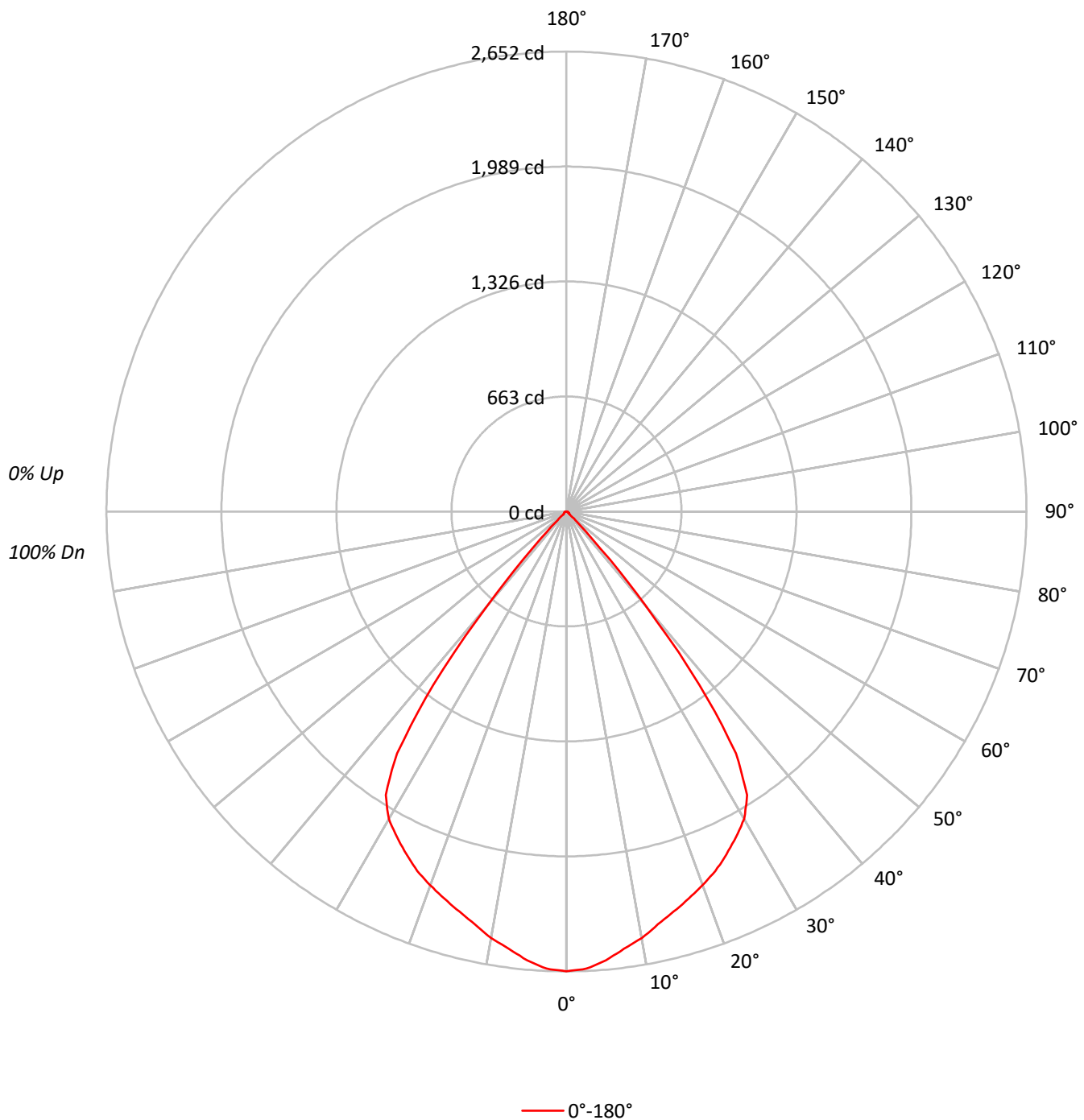
Lumens per Lamp: N/A
Luminaire Lumens: 3070.8 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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			
RC	80				70				50				30				10			
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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93		
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86		
3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50		
10	69	59	53	49	68	58	53	49	58	52	49	57	52	48	56	52	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20443
5°	20104
10°	19560
15°	19065
20°	18819
25°	18558
30°	18232
35°	16029
40°	7116
45°	893
50°	206
55°	231
60°	233
65°	235
70°	194
75°	194
80°	191
85°	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	8.0
10°-20°	674.9	22.0
20°-30°	1005.0	32.7
30°-40°	969.9	31.6
40°-50°	141.1	4.6
50°-60°	14.7	0.5
60°-70°	12.0	0.4
70°-80°	6.8	0.2
80°-90°	1.8	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°	1924.6	62.7
0°-40°	2894.4	94.3
0°-60°	3050.2	99.3
0°-90°	3070.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2652	
5°	2598	245
15°	2389	675
25°	2182	1005
35°	1703	970
45°	82	141
55°	17	15
65°	13	12
75°	6	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2651.8
2.5°	2638.9
5°	2597.9
7.5°	2544.0
10°	2498.7
12.5°	2438.4
15°	2388.8
17.5°	2341.3
20°	2293.9
22.5°	2244.3
25°	2181.8
27.5°	2117.1
30°	2048.1
32.5°	1938.2
35°	1703.2
37.5°	1261.2
40°	707.1
42.5°	293.2
45°	81.9
47.5°	25.9
50°	17.2
52.5°	17.2
55°	17.2
57.5°	15.1
60°	15.1
62.5°	12.9
65°	12.9
67.5°	10.8
70°	8.6
72.5°	8.6
75°	6.5
77.5°	4.3
80°	4.3
82.5°	2.2
85°	2.2
87.5°	0.0
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	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	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
	8H	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16
	12H	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.24
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	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.07	0.52	0.00	0.00	0.00	0.07	0.52
	6H	0.00	0.09	0.08	0.54	1.01	0.00	0.09	0.08	0.54	1.01
	8H	0.00	0.19	0.22	0.64	1.12	0.00	0.19	0.22	0.64	1.12
	12H	0.00	0.27	0.38	0.76	1.24	0.00	0.27	0.38	0.76	1.24
8H	4H	0.00	0.00	0.00	0.18	0.65	0.00	0.00	0.00	0.18	0.65
	6H	0.00	0.31	0.46	0.81	1.30	0.00	0.31	0.46	0.81	1.30
	8H	0.15	0.46	0.69	0.99	1.48	0.15	0.46	0.69	0.99	1.48
	12H	0.41	0.68	0.93	1.18	1.76	0.41	0.68	0.93	1.18	1.76
12H	4H	0.00	0.00	0.00	0.15	0.63	0.00	0.00	0.00	0.15	0.63
	6H	0.00	0.29	0.51	0.81	1.31	0.00	0.29	0.51	0.81	1.31
	8H	0.22	0.49	0.75	0.99	1.57	0.22	0.49	0.75	0.99	1.57

END OF REPORT