

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: P979572

Luminaire Tested: PRLX-240-940-74L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979572
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-240-940-74L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

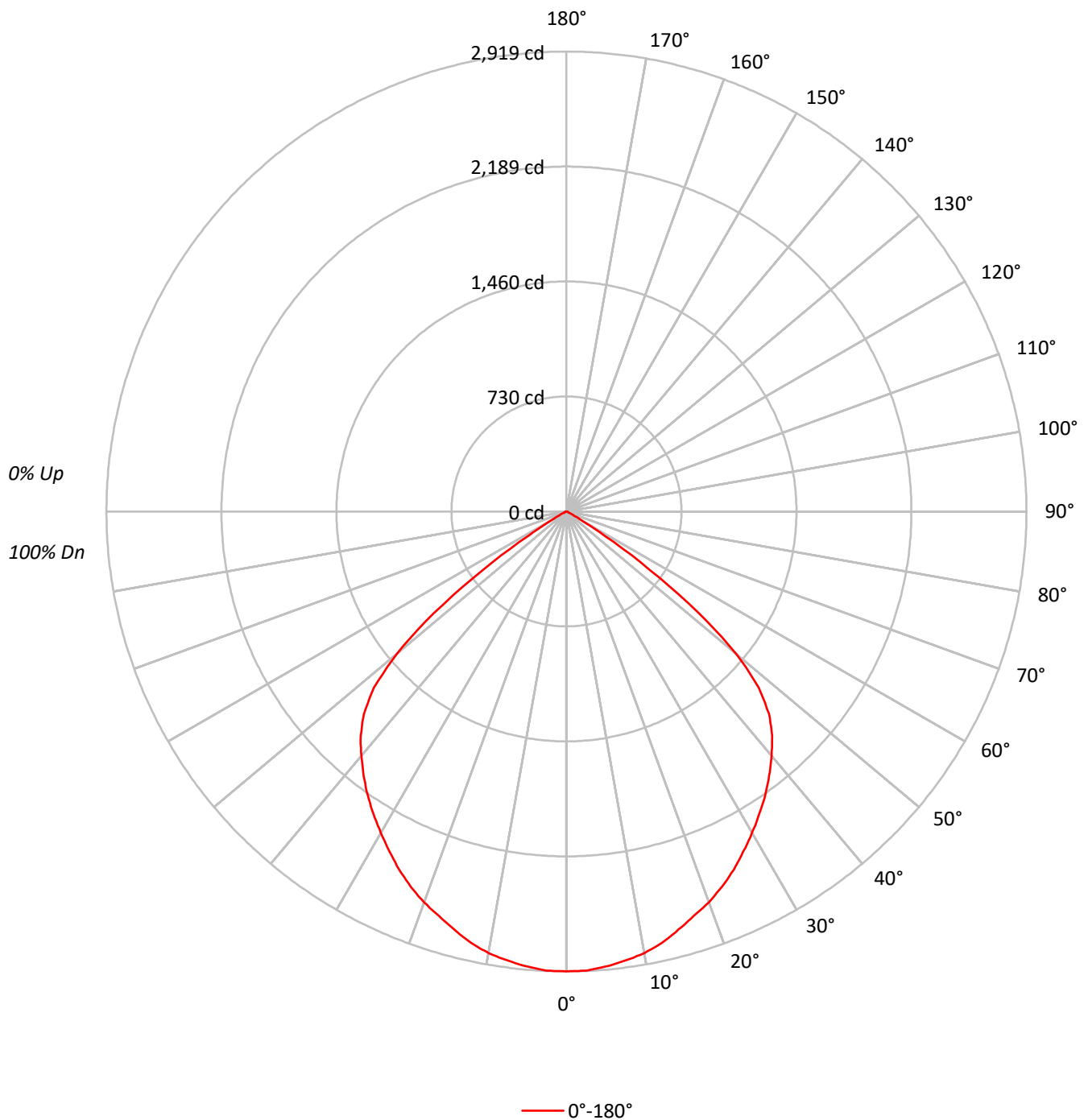
Lumens per Lamp: N/A
Luminaire Lumens: 5587.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	106	104	101	102	100	98		99	97	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		67
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		57
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	51	44	40	50	44	39		49	43	39		48
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29394
5°	29309
10°	29096
15°	28644
20°	28289
25°	27889
30°	27392
35°	27033
40°	26622
45°	25876
50°	22059
55°	11265
60°	1825
65°	233
70°	215
75°	284
80°	284
85°	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 25876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	4.9
10°-20°	775.5	13.9
20°-30°	1155.5	20.7
30°-40°	1375.0	24.6
40°-50°	1372.6	24.6
50°-60°	602.1	10.8
60°-70°	20.9	0.4
70°-80°	7.4	0.1
80°-90°	3.3	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°	2206.0	39.5
0°-40°	3581.0	64.1
0°-60°	5555.7	99.4
0°-90°	5587.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5587.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2919	
5°	2900	275
15°	2748	775
25°	2510	1155
35°	2199	1375
45°	1817	1373
55°	642	602
65°	10	21
75°	7	7
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2919.3
2.5°	2916.8
5°	2899.7
7.5°	2875.2
10°	2845.8
12.5°	2804.2
15°	2747.8
17.5°	2691.5
20°	2640.1
22.5°	2578.8
25°	2510.3
27.5°	2431.9
30°	2356.0
32.5°	2277.6
35°	2199.2
37.5°	2113.5
40°	2025.4
42.5°	1932.3
45°	1817.2
47.5°	1655.6
50°	1408.2
52.5°	1058.0
55°	641.7
57.5°	289.0
60°	90.6
62.5°	19.6
65°	9.8
67.5°	7.3
70°	7.3
72.5°	7.3
75°	7.3
77.5°	7.3
80°	4.9
82.5°	4.9
85°	2.4
87.5°	2.4
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	14.05	15.40	14.41	15.71	16.02	14.05	15.40	14.41	15.71	16.02
	3H	13.93	15.11	14.31	15.44	15.80	13.93	15.11	14.31	15.44	15.80
	4H	13.86	14.95	14.26	15.30	15.69	13.86	14.95	14.26	15.30	15.69
	6H	13.79	14.79	14.21	15.16	15.56	13.79	14.79	14.21	15.16	15.56
	8H	13.75	14.70	14.18	15.09	15.50	13.75	14.70	14.18	15.09	15.50
	12H	13.71	14.62	14.15	15.00	15.43	13.71	14.62	14.15	15.00	15.43
4H	2H	13.85	14.95	14.26	15.30	15.68	13.85	14.95	14.26	15.30	15.68
	3H	13.73	14.61	14.15	15.01	15.42	13.73	14.61	14.15	15.01	15.42
	4H	13.66	14.43	14.09	14.85	15.29	13.66	14.43	14.09	14.85	15.29
	6H	13.59	14.25	14.05	14.70	15.17	13.59	14.25	14.05	14.70	15.17
	8H	13.53	14.16	14.00	14.61	15.08	13.53	14.16	14.00	14.61	15.08
	12H	13.49	14.04	13.98	14.53	15.00	13.49	14.04	13.98	14.53	15.00
8H	4H	13.52	14.14	13.99	14.59	15.06	13.52	14.14	13.99	14.59	15.06
	6H	13.43	13.94	13.93	14.44	14.92	13.43	13.94	13.93	14.44	14.92
	8H	13.37	13.84	13.89	14.35	14.84	13.37	13.84	13.89	14.35	14.84
	12H	13.32	13.75	13.84	14.24	14.81	13.32	13.75	13.84	14.24	14.81
12H	4H	13.47	14.02	13.95	14.50	14.98	13.47	14.02	13.95	14.50	14.98
	6H	13.36	13.83	13.88	14.34	14.83	13.36	13.83	13.88	14.34	14.83
	8H	13.32	13.74	13.83	14.24	14.81	13.32	13.74	13.83	14.24	14.81