

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: P979262

Luminaire Tested: PRLX-240-927-12L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979262
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-240-927-12L-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

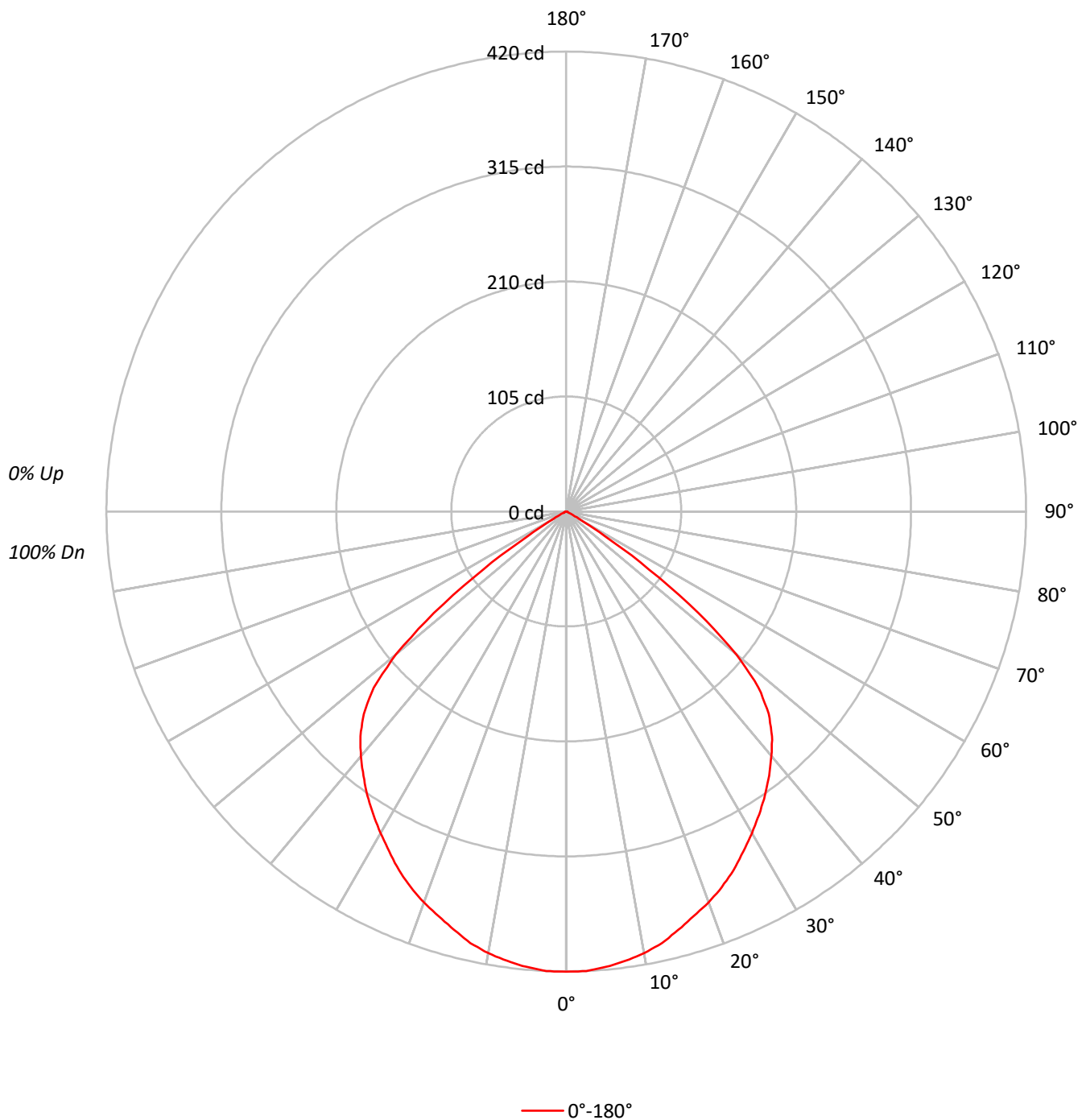
Lumens per Lamp: N/A
Luminaire Lumens: 804.5 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	109	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°	4232
5°	4220
10°	4189
15°	4124
20°	4073
25°	4015
30°	3944
35°	3892
40°	3833
45°	3725
50°	3175
55°	1622
60°	262
65°	33
70°	32
75°	43
80°	41
85°	46

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3725 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	4.9
10°-20°	111.6	13.9
20°-30°	166.4	20.7
30°-40°	198.0	24.6
40°-50°	197.6	24.6
50°-60°	86.7	10.8
60°-70°	3.0	0.4
70°-80°	1.1	0.1
80°-90°	0.5	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°	317.6	39.5
0°-40°	515.6	64.1
0°-60°	799.9	99.4
0°-90°	804.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	420	
5°	418	40
15°	396	112
25°	361	166
35°	317	198
45°	262	198
55°	92	87
65°	1	3
75°	1	1
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	420.3
2.5°	420.0
5°	417.5
7.5°	414.0
10°	409.7
12.5°	403.7
15°	395.6
17.5°	387.5
20°	380.1
22.5°	371.3
25°	361.4
27.5°	350.1
30°	339.2
32.5°	327.9
35°	316.6
37.5°	304.3
40°	291.6
42.5°	278.2
45°	261.6
47.5°	238.4
50°	202.7
52.5°	152.3
55°	92.4
57.5°	41.6
60°	13.0
62.5°	2.8
65°	1.4
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	1.1
80°	0.7
82.5°	0.7
85°	0.4
87.5°	0.4
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	7.31	8.66	7.68	8.97	9.29	7.31	8.66	7.68	8.97	9.29
	3H	7.19	8.37	7.57	8.70	9.07	7.19	8.37	7.57	8.70	9.07
	4H	7.13	8.22	7.53	8.57	8.95	7.13	8.22	7.53	8.57	8.95
	6H	7.06	8.06	7.47	8.43	8.82	7.06	8.06	7.47	8.43	8.82
	8H	7.02	7.96	7.45	8.36	8.76	7.02	7.96	7.45	8.36	8.76
	12H	6.98	7.88	7.41	8.27	8.70	6.98	7.88	7.41	8.27	8.70
4H	2H	7.12	8.21	7.52	8.56	8.94	7.12	8.21	7.52	8.56	8.94
	3H	7.00	7.87	7.41	8.28	8.68	7.00	7.87	7.41	8.28	8.68
	4H	6.92	7.70	7.36	8.12	8.56	6.92	7.70	7.36	8.12	8.56
	6H	6.85	7.52	7.32	7.97	8.43	6.85	7.52	7.32	7.97	8.43
	8H	6.80	7.42	7.27	7.87	8.34	6.80	7.42	7.27	7.87	8.34
	12H	6.76	7.31	7.24	7.79	8.27	6.76	7.31	7.24	7.79	8.27
8H	4H	6.78	7.41	7.25	7.86	8.33	6.78	7.41	7.25	7.86	8.33
	6H	6.69	7.21	7.19	7.70	8.19	6.69	7.21	7.19	7.70	8.19
	8H	6.63	7.10	7.16	7.62	8.11	6.63	7.10	7.16	7.62	8.11
	12H	6.59	7.01	7.11	7.51	8.08	6.59	7.01	7.11	7.51	8.08
12H	4H	6.73	7.29	7.22	7.77	8.24	6.73	7.29	7.22	7.77	8.24
	6H	6.62	7.09	7.15	7.61	8.10	6.62	7.09	7.15	7.61	8.10
	8H	6.58	7.01	7.10	7.50	8.07	6.58	7.01	7.10	7.50	8.07