

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: P980060

Luminaire Tested: PRLX-242-935-12L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-12L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

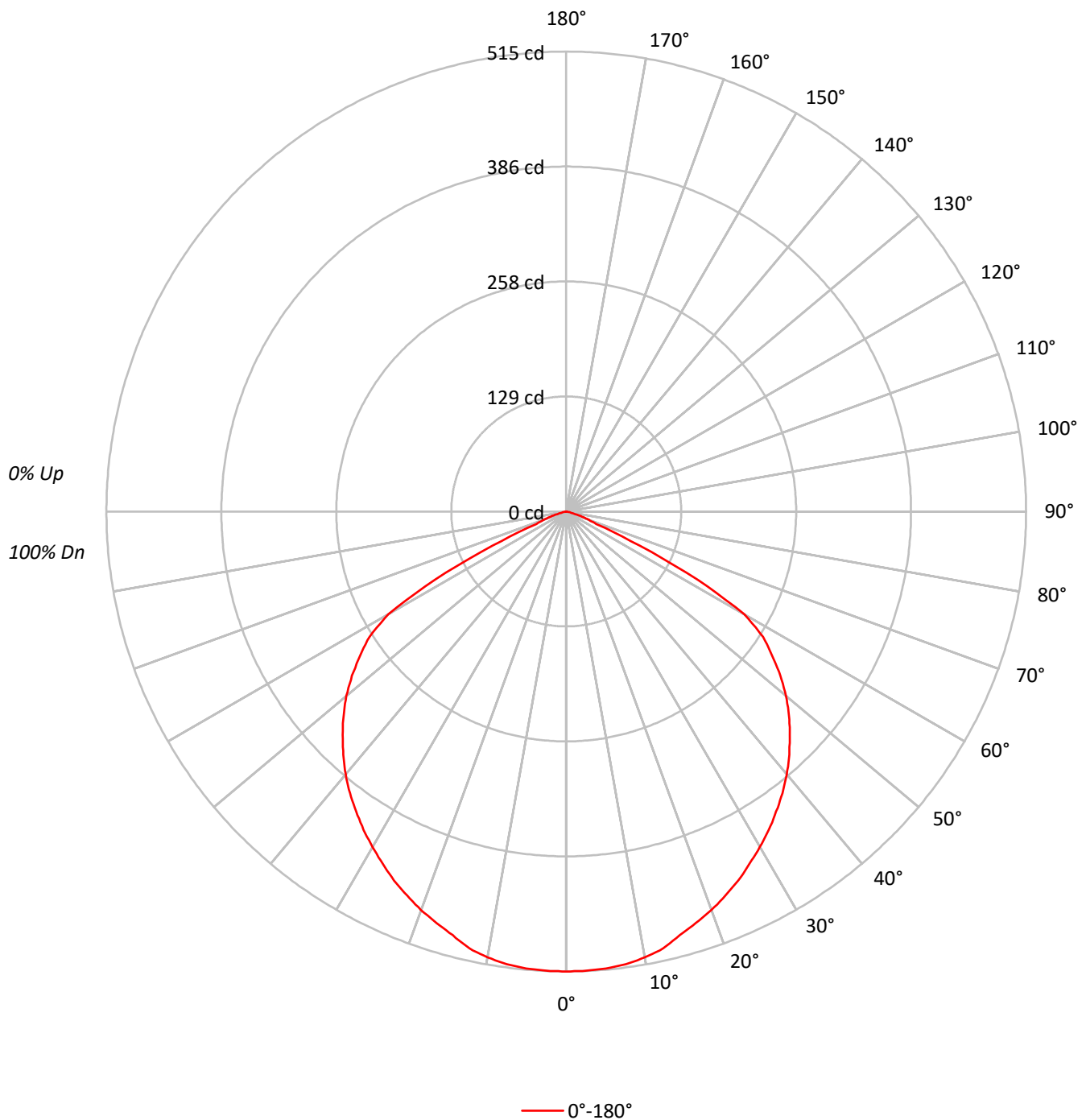
Lumens per Lamp: N/A
Luminaire Lumens: 1291.0 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P980060

CATALOG NUMBER: PRLX-242-935-12L-C-U-S-BLAK-X

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		88
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		76
3	94	84	77	71	91	83	76	71	80	74	69		77	72	68		65
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		56
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		49
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		43
7	68	55	47	41	66	54	46	41	53	46	40		51	45	40		38
8	63	50	42	36	62	49	42	36	48	41	36		47	41	36		34
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		30
10	55	42	35	30	54	42	35	30	41	34	29		40	34	29		27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2306
5°	2307
10°	2304
15°	2276
20°	2262
25°	2252
30°	2241
35°	2240
40°	2245
45°	2241
50°	2237
55°	2199
60°	2060
65°	961
70°	323
75°	100
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	3.8
10°-20°	138.9	10.8
20°-30°	210.2	16.3
30°-40°	256.9	19.9
40°-50°	273.3	21.2
50°-60°	250.8	19.4
60°-70°	102.9	8.0
70°-80°	9.3	0.7
80°-90°	0.0	0.0
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°	397.9	30.8
0°-40°	654.7	50.7
0°-60°	1178.8	91.3
0°-90°	1291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	515	
5°	514	49
15°	491	139
25°	456	210
35°	410	257
45°	354	273
55°	282	251
65°	91	103
75°	6	9
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	515.2
2.5°	514.8
5°	513.6
7.5°	511.3
10°	507.1
12.5°	501.3
15°	491.2
17.5°	483.1
20°	475.0
22.5°	465.7
25°	456.1
27.5°	444.9
30°	433.7
32.5°	422.5
35°	410.1
37.5°	397.8
40°	384.3
42.5°	369.6
45°	354.1
47.5°	338.3
50°	321.3
52.5°	302.4
55°	281.9
57.5°	261.5
60°	230.2
62.5°	166.1
65°	90.8
67.5°	36.3
70°	24.7
72.5°	17.0
75°	5.8
77.5°	0.4
80°	0.0
82.5°	0.0
85°	0.0
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	15.69	17.23	16.06	17.54	17.86	15.69	17.23	16.06	17.54	17.86
	3H	15.68	17.04	16.06	17.37	17.73	15.68	17.04	16.06	17.37	17.73
	4H	15.63	16.90	16.03	17.25	17.63	15.63	16.90	16.03	17.25	17.63
	6H	15.57	16.73	15.98	17.10	17.49	15.57	16.73	15.98	17.10	17.49
	8H	15.53	16.64	15.96	17.03	17.43	15.53	16.64	15.96	17.03	17.43
	12H	15.50	16.56	15.93	16.94	17.37	15.50	16.56	15.93	16.94	17.37
4H	2H	15.75	17.02	16.15	17.37	17.75	15.75	17.02	16.15	17.37	17.75
	3H	15.76	16.80	16.17	17.20	17.60	15.76	16.80	16.17	17.20	17.60
	4H	15.70	16.62	16.14	17.04	17.48	15.70	16.62	16.14	17.04	17.48
	6H	15.64	16.44	16.10	16.88	17.34	15.64	16.44	16.10	16.88	17.34
	8H	15.60	16.34	16.06	16.78	17.25	15.60	16.34	16.06	16.78	17.25
	12H	15.56	16.22	16.05	16.70	17.17	15.56	16.22	16.05	16.70	17.17
8H	4H	15.60	16.34	16.07	16.79	17.26	15.60	16.34	16.07	16.79	17.26
	6H	15.52	16.13	16.02	16.62	17.10	15.52	16.13	16.02	16.62	17.10
	8H	15.46	16.01	15.98	16.52	17.01	15.46	16.01	15.98	16.52	17.01
	12H	15.43	15.91	15.94	16.40	16.97	15.43	15.91	15.94	16.40	16.97
12H	4H	15.57	16.23	16.05	16.71	17.18	15.57	16.23	16.05	16.71	17.18
	6H	15.46	16.01	15.98	16.52	17.01	15.46	16.01	15.98	16.52	17.01
	8H	15.43	15.91	15.94	16.40	16.97	15.43	15.91	15.94	16.40	16.97

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7