

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: P979452

Luminaire Tested: PRLX-240-935-31L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979452
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-240-935-31L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

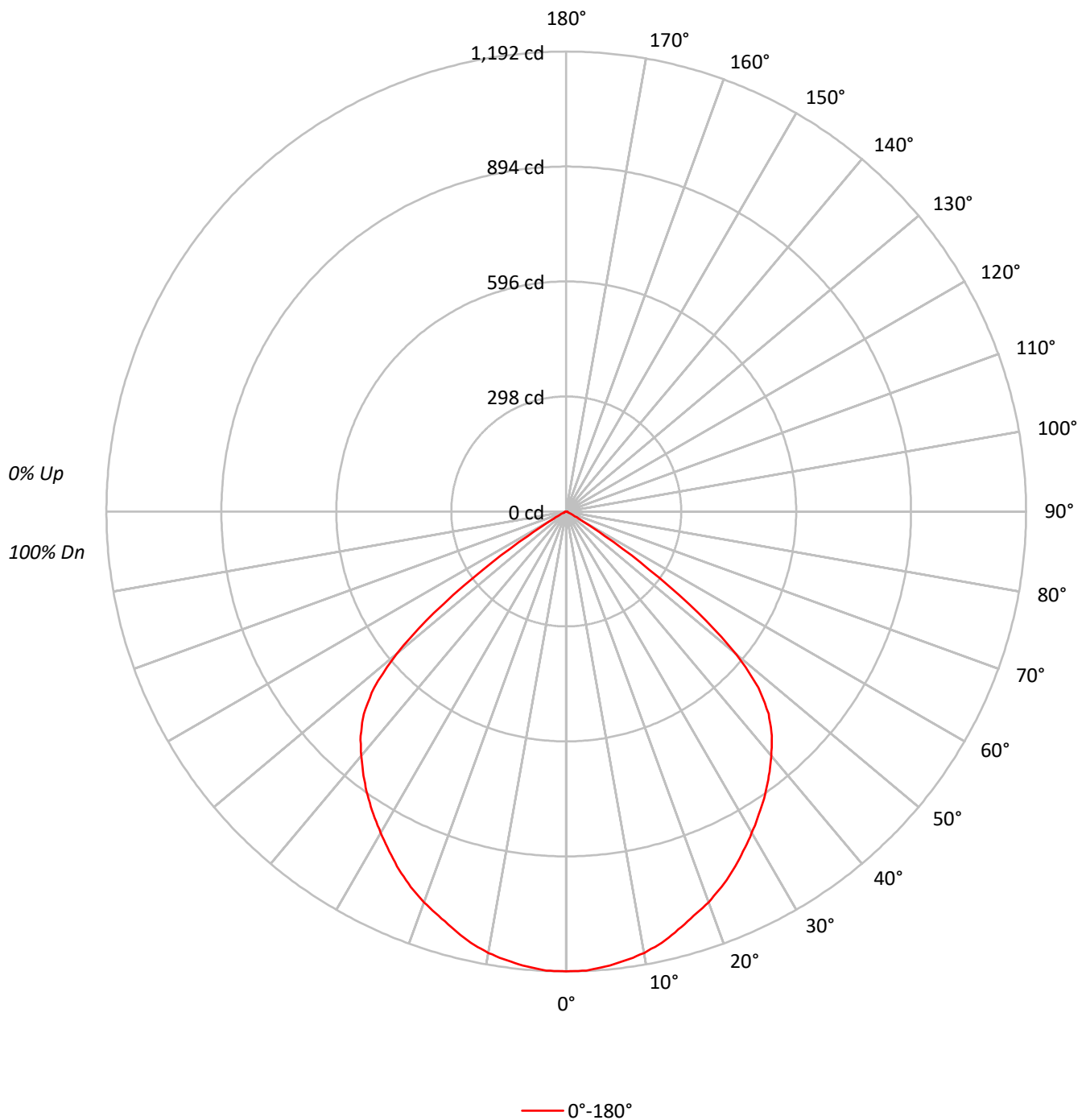
Lumens per Lamp: N/A
Luminaire Lumens: 2281.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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: P979452

CATALOG NUMBER: PRLX-240-935-31L-F-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		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°	12002
5°	11967
10°	11881
15°	11696
20°	11551
25°	11388
30°	11185
35°	11038
40°	10870
45°	10566
50°	9007
55°	4599
60°	745
65°	95
70°	88
75°	117
80°	116
85°	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	4.9
10°-20°	316.6	13.9
20°-30°	471.8	20.7
30°-40°	561.5	24.6
40°-50°	560.5	24.6
50°-60°	245.8	10.8
60°-70°	8.5	0.4
70°-80°	3.0	0.1
80°-90°	1.4	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°	900.8	39.5
0°-40°	1462.2	64.1
0°-60°	2268.5	99.4
0°-90°	2281.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1192	
5°	1184	112
15°	1122	317
25°	1025	472
35°	898	561
45°	742	560
55°	262	246
65°	4	9
75°	3	3
85°	1	1
90°	0	

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CATALOG NUMBER: PRLX-240-935-31L-F-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1192
2.5°	1191
5°	1184
7.5°	1174
10°	1162
12.5°	1145
15°	1122
17.5°	1099
20°	1078
22.5°	1053
25°	1025
27.5°	993
30°	962
32.5°	930
35°	898
37.5°	863
40°	827
42.5°	789
45°	742
47.5°	676
50°	575
52.5°	432
55°	262
57.5°	118
60°	37
62.5°	8
65°	4
67.5°	3
70°	3
72.5°	3
75°	3
77.5°	3
80°	2
82.5°	2
85°	1
87.5°	1
90°	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	10.94	12.28	11.30	12.60	12.91	10.94	12.28	11.30	12.60	12.91
	3H	10.82	11.99	11.19	12.32	12.69	10.82	11.99	11.19	12.32	12.69
	4H	10.75	11.84	11.15	12.19	12.58	10.75	11.84	11.15	12.19	12.58
	6H	10.68	11.68	11.09	12.05	12.44	10.68	11.68	11.09	12.05	12.44
	8H	10.64	11.59	11.07	11.98	12.38	10.64	11.59	11.07	11.98	12.38
	12H	10.60	11.51	11.03	11.89	12.32	10.60	11.51	11.03	11.89	12.32
4H	2H	10.74	11.83	11.14	12.18	12.57	10.74	11.83	11.14	12.18	12.57
	3H	10.62	11.50	11.04	11.90	12.30	10.62	11.50	11.04	11.90	12.30
	4H	10.54	11.32	10.98	11.74	12.18	10.54	11.32	10.98	11.74	12.18
	6H	10.47	11.14	10.94	11.59	12.05	10.47	11.14	10.94	11.59	12.05
	8H	10.42	11.05	10.89	11.49	11.96	10.42	11.05	10.89	11.49	11.96
	12H	10.38	10.93	10.86	11.41	11.89	10.38	10.93	10.86	11.41	11.89
8H	4H	10.41	11.03	10.88	11.48	11.95	10.41	11.03	10.88	11.48	11.95
	6H	10.31	10.83	10.82	11.33	11.81	10.31	10.83	10.82	11.33	11.81
	8H	10.26	10.72	10.78	11.24	11.73	10.26	10.72	10.78	11.24	11.73
	12H	10.21	10.63	10.73	11.13	11.70	10.21	10.63	10.73	11.13	11.70
12H	4H	10.36	10.91	10.84	11.39	11.87	10.36	10.91	10.84	11.39	11.87
	6H	10.25	10.71	10.77	11.23	11.72	10.25	10.71	10.77	11.23	11.72
	8H	10.21	10.63	10.72	11.12	11.69	10.21	10.63	10.72	11.12	11.69