

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: P979780

Luminaire Tested: PRLX-241-935-43L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-43L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

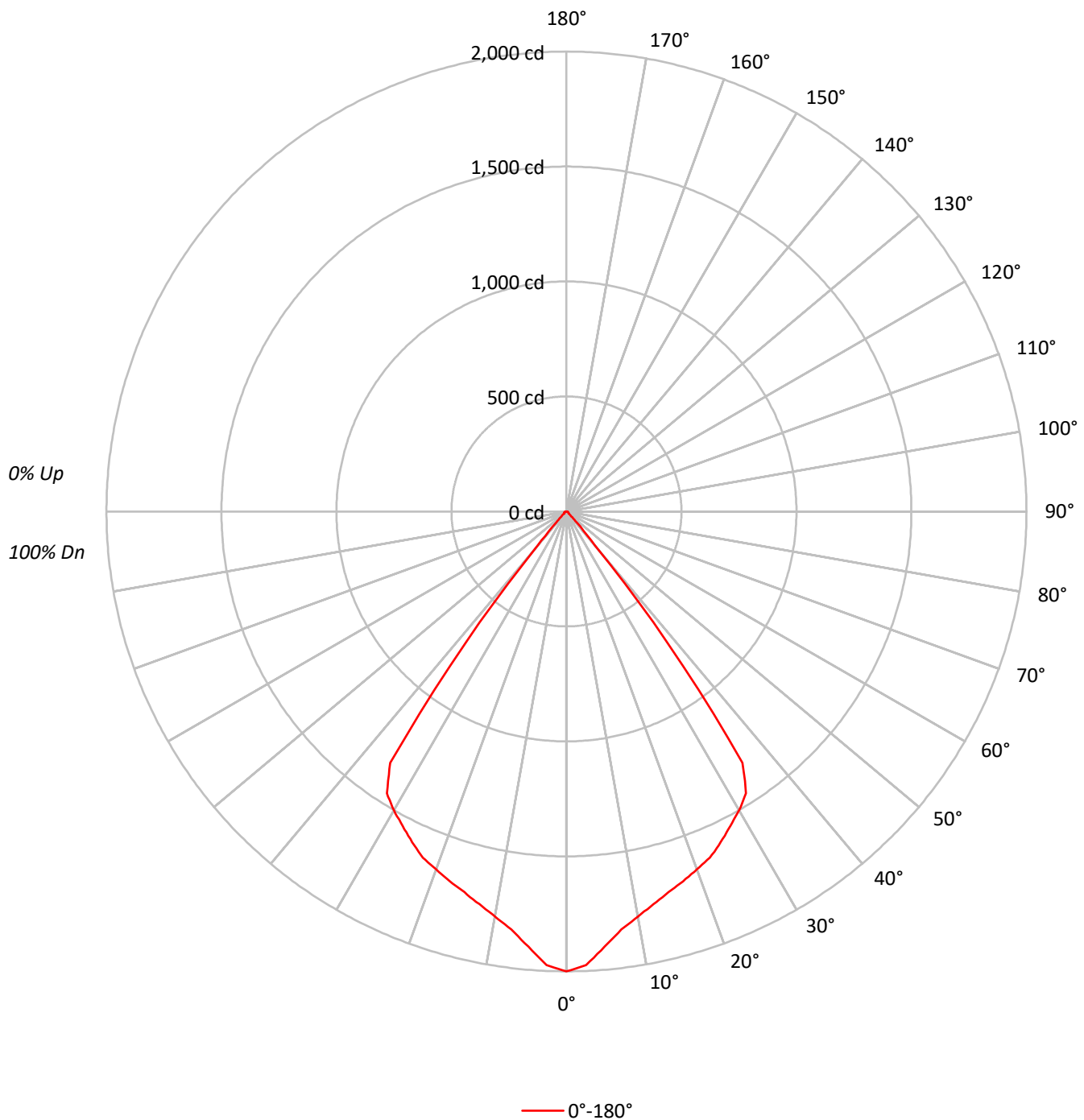
Lumens per Lamp: N/A
Luminaire Lumens: 2126.2 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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: P979780

CATALOG NUMBER: PRLX-241-935-43L-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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97
2	108	103	98	95	105	101	97	94	98	94	92		95	92	90		92
3	102	95	90	86	100	94	89	85	91	87	84		89	86	83		87
4	97	89	83	79	95	88	82	78	85	81	77		83	80	76		82
5	91	83	77	72	90	82	76	72	80	75	71		78	74	71		77
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72
7	82	72	66	62	81	72	66	62	70	65	61		69	65	61		68
8	78	68	62	57	76	67	61	57	66	61	57		65	60	57		64
9	74	64	58	54	73	63	57	53	62	57	53		61	57	53		61
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15417
5°	14702
10°	14002
15°	13684
20°	13594
25°	13500
30°	13358
35°	12561
40°	1932
45°	314
50°	148
55°	148
60°	170
65°	175
70°	156
75°	164
80°	120
85°	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 314 cd/sqm

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CATALOG NUMBER: PRLX-241-935-43L-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	8.4
10°-20°	485.1	22.8
20°-30°	731.1	34.4
30°-40°	666.8	31.4
40°-50°	39.2	1.8
50°-60°	10.0	0.5
60°-70°	9.0	0.4
70°-80°	5.2	0.2
80°-90°	1.9	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°	1394.1	65.6
0°-40°	2060.9	96.9
0°-60°	2110.1	99.2
0°-90°	2126.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2000	
5°	1900	178
15°	1715	485
25°	1587	731
35°	1335	667
45°	29	39
55°	11	10
65°	10	9
75°	6	5
85°	1	2
90°	0	

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CATALOG NUMBER: PRLX-241-935-43L-C-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1999.9
2.5°	1973.9
5°	1899.8
7.5°	1832.6
10°	1788.7
12.5°	1748.9
15°	1714.6
17.5°	1685.8
20°	1657.0
22.5°	1629.6
25°	1587.1
27.5°	1541.8
30°	1500.6
32.5°	1452.6
35°	1334.7
37.5°	718.8
40°	192.0
42.5°	64.5
45°	28.8
47.5°	15.1
50°	12.3
52.5°	11.0
55°	11.0
57.5°	11.0
60°	11.0
62.5°	9.6
65°	9.6
67.5°	8.2
70°	6.9
72.5°	5.5
75°	5.5
77.5°	4.1
80°	2.7
82.5°	2.7
85°	1.4
87.5°	1.4
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	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	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.44
	8H	0.00	0.00	0.00	0.20	0.67	0.00	0.00	0.00	0.20	0.67
	12H	0.00	0.00	0.00	0.35	0.83	0.00	0.00	0.00	0.35	0.83
8H	4H	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09
	6H	0.00	0.00	0.00	0.26	0.75	0.00	0.00	0.00	0.26	0.75
	8H	0.00	0.10	0.34	0.63	1.13	0.00	0.10	0.34	0.63	1.13
	12H	0.09	0.34	0.61	0.84	1.43	0.09	0.34	0.61	0.84	1.43
12H	4H	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06
	6H	0.00	0.00	0.00	0.29	0.79	0.00	0.00	0.00	0.29	0.79
	8H	0.00	0.18	0.45	0.68	1.26	0.00	0.18	0.45	0.68	1.26

END OF REPORT