

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: P979437

Luminaire Tested: PRLX-CYL6-935-18L-MD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-935-18L-MD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH MEDIUM OPTIC
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

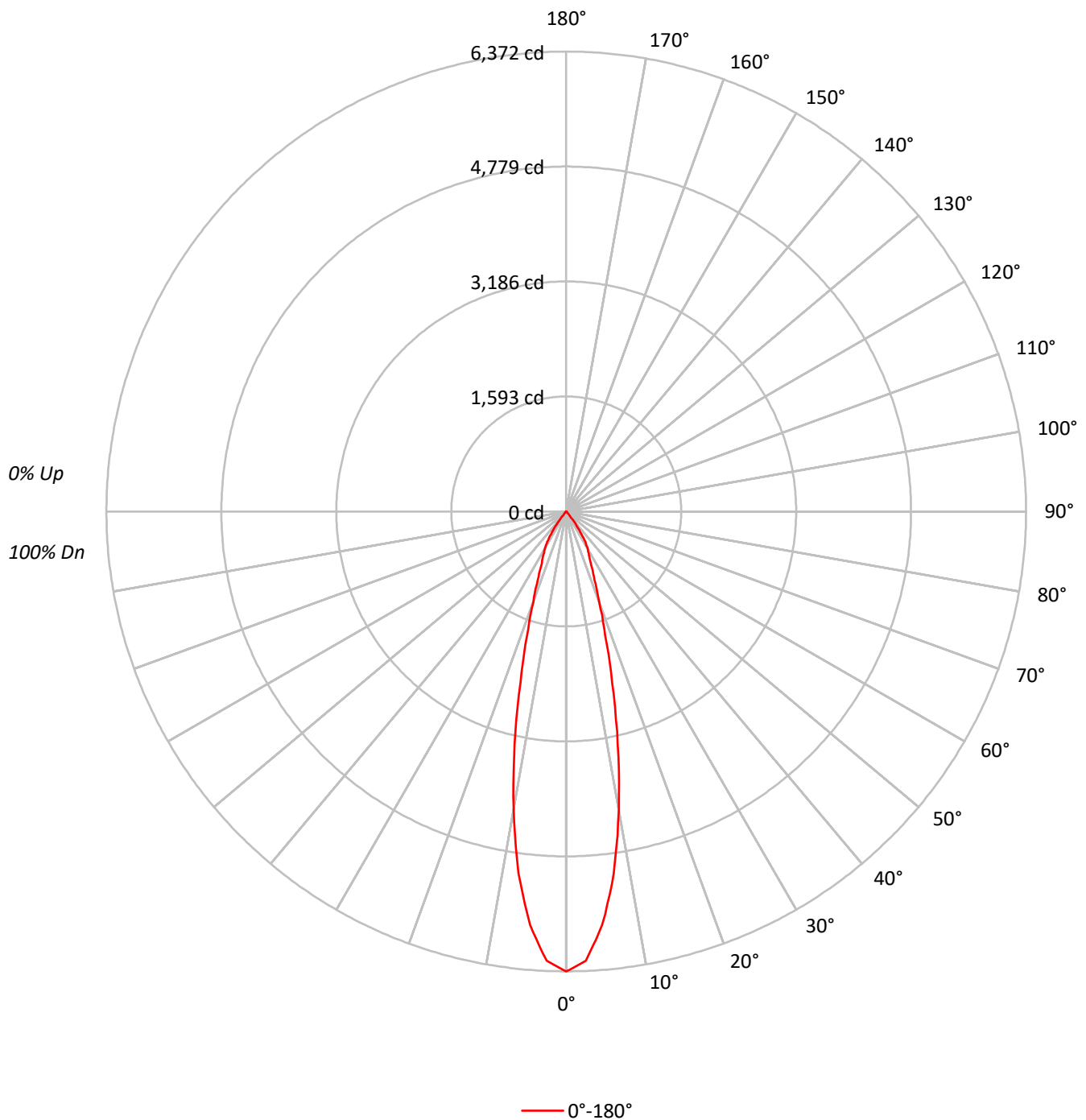
Lumens per Lamp: N/A
Luminaire Lumens: 1788.9 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82
6	95	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73
9	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	70
10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64163
5°	58091
10°	42879
15°	25546
20°	14299
25°	8988
30°	6853
35°	3900
40°	668
45°	121
50°	63
55°	49
60°	34
65°	26
70°	32
75°	43
80°	35
85°	69

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	27.9
10°-20°	689.2	38.5
20°-30°	392.7	21.9
30°-40°	192.6	10.8
40°-50°	10.1	0.6
50°-60°	2.5	0.1
60°-70°	1.3	0.1
70°-80°	1.0	0.1
80°-90°	0.6	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°	1580.9	88.4
0°-40°	1773.4	99.1
0°-60°	1786.1	99.8
0°-90°	1788.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6372	
5°	5747	499
15°	2451	689
25°	809	393
35°	317	193
45°	8	10
55°	3	3
65°	1	1
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6372.3
2.5°	6228.9
5°	5747.3
7.5°	5053.6
10°	4193.8
12.5°	3301.3
15°	2450.6
17.5°	1803.1
20°	1334.5
22.5°	1026.3
25°	809.0
27.5°	680.8
30°	589.4
32.5°	473.6
35°	317.3
37.5°	159.8
40°	50.8
42.5°	13.0
45°	8.5
47.5°	5.1
50°	4.0
52.5°	3.4
55°	2.8
57.5°	2.3
60°	1.7
62.5°	1.7
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.6
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	0.00	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
8H	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
12H	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

END OF REPORT