

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: P979274

Luminaire Tested: PRLX-CYL6-927-18L-FL-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-927-18L-FL-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH FLOOD OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

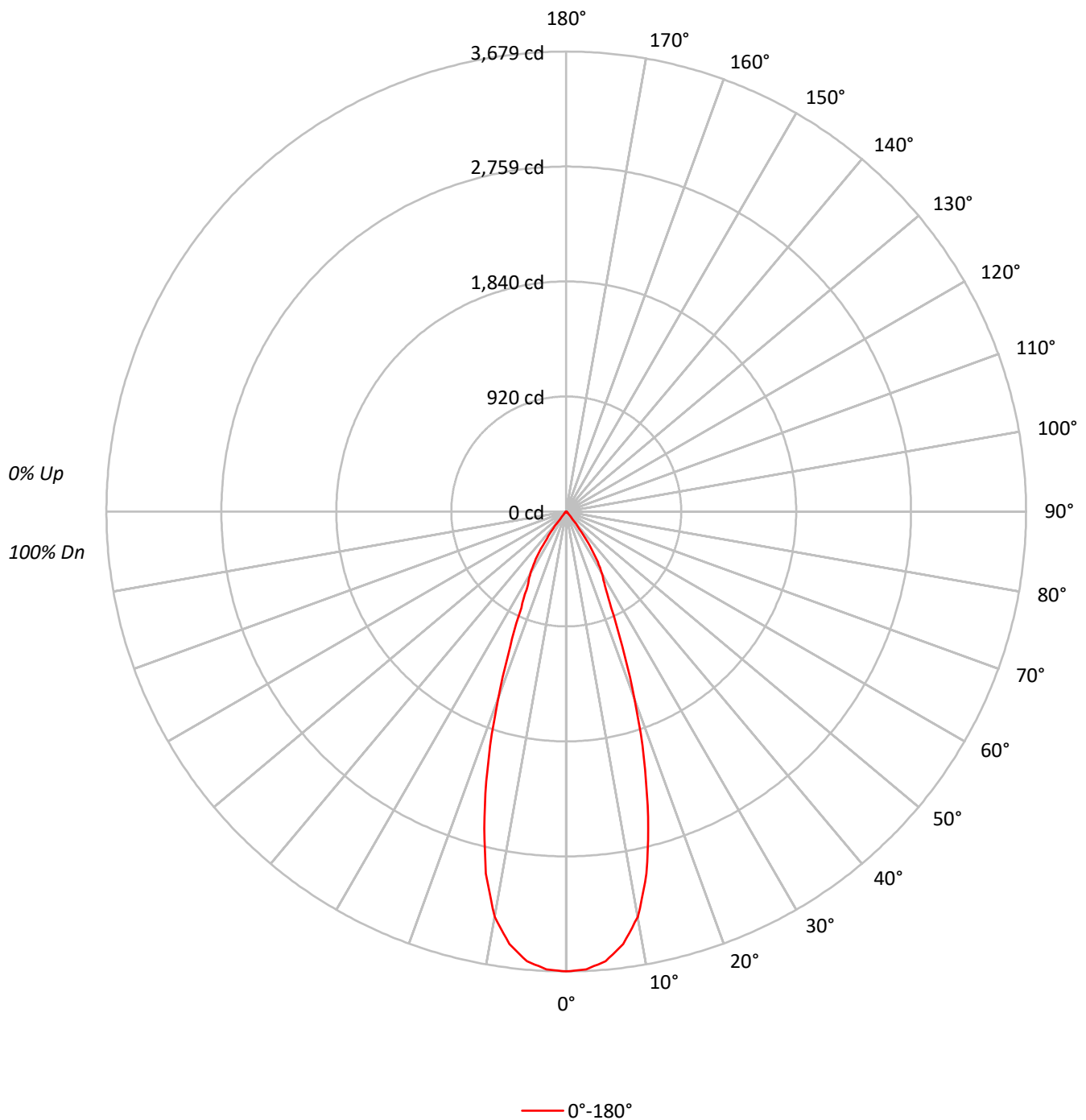
Lumens per Lamp: N/A
Luminaire Lumens: 1633.1 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.59
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P979274

CATALOG NUMBER: PRLX-CYL6-927-18L-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P979274

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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84
5	98	91	86	83	96	90	85	82	88	84	81	87	83	81	85	82	80
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37040
5°	36493
10°	33674
15°	26391
20°	17038
25°	9448
30°	6634
35°	3712
40°	453
45°	125
50°	56
55°	26
60°	10
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 125 cd/sqm

TEST NUMBER: P979274

CATALOG NUMBER: PRLX-CYL6-927-18L-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	20.5
10°-20°	683.9	41.9
20°-30°	421.9	25.8
30°-40°	182.2	11.2
40°-50°	8.8	0.5
50°-60°	1.6	0.1
60°-70°	0.2	0.0
70°-80°	0.0	0.0
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°	1440.3	88.2
0°-40°	1622.6	99.4
0°-60°	1633.0	100.0
0°-90°	1633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3679	
5°	3610	335
15°	2532	684
25°	850	422
35°	302	182
45°	9	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P979274

CATALOG NUMBER: PRLX-CYL6-927-18L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°
0°	3678.6
2.5°	3666.2
5°	3610.5
7.5°	3488.9
10°	3293.5
12.5°	2966.2
15°	2531.7
17.5°	2065.3
20°	1590.1
22.5°	1170.0
25°	850.4
27.5°	664.4
30°	570.6
32.5°	453.6
35°	302.0
37.5°	146.4
40°	34.5
42.5°	13.4
45°	8.8
47.5°	5.7
50°	3.6
52.5°	2.6
55°	1.5
57.5°	1.0
60°	0.5
62.5°	0.5
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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	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