

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: P979576

Luminaire Tested: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH MEDIUM OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

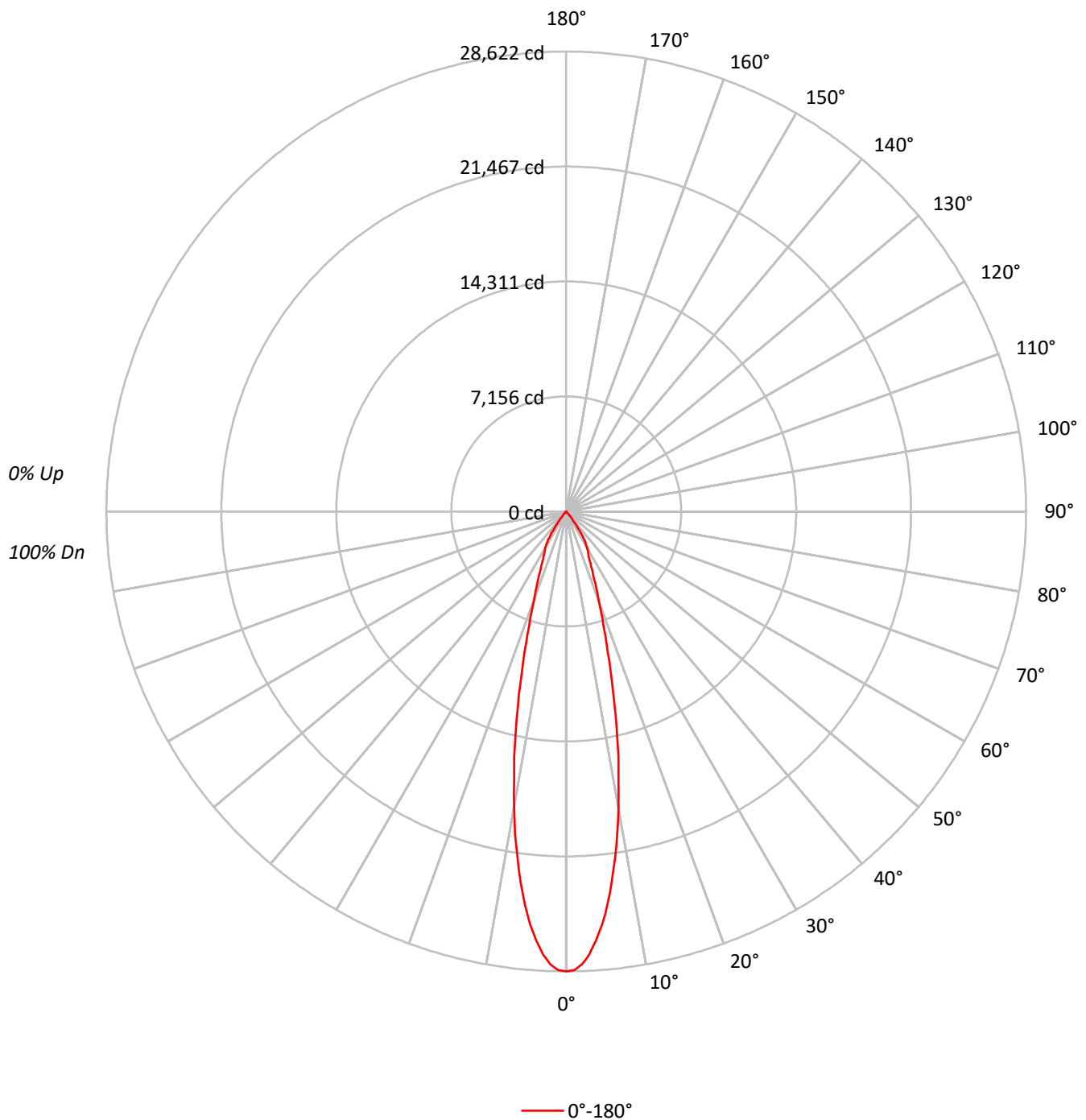
Lumens per Lamp: N/A
Luminaire Lumens: 7888.6 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

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	115	112	110	109	112	110	108	107	106	105	104		103	101	100		99
2	110	107	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	94	98	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	83	80	77		82	79	76		81
8	89	82	77	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	71	86	79	74	71	78	74	71		77	73	71		76
10	84	76	72	69	83	76	72	69	75	71	69		75	71	68		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288195
5°	260706
10°	191631
15°	114908
20°	63374
25°	39507
30°	30040
35°	17039
40°	2639
45°	383
50°	154
55°	86
60°	48
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 383 cd/sqm

TEST NUMBER: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2229.3	28.3
10°-20°	3056.6	38.7
20°-30°	1717.5	21.8
30°-40°	842.7	10.7
40°-50°	36.4	0.5
50°-60°	5.1	0.1
60°-70°	0.9	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°	7003.5	88.8
0°-40°	7846.2	99.5
0°-60°	7887.8	100.0
0°-90°	7888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7888.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28622	
5°	25793	###
15°	11023	3057
25°	3556	1718
35°	1386	843
45°	27	36
55°	5	5
65°	0	1
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

0°	
0°	28622.0
1°	28560.8
2°	28200.8
3°	27598.3
4°	26743.6
5°	25793.4
6°	24590.9
7°	23253.7
8°	21781.8
9°	20341.8
10°	18742.6
11°	17028.2
12°	15615.1
13°	13957.1
14°	12448.5
15°	11023.2
16°	9732.5
17°	8554.5
18°	7496.5
19°	6693.2
20°	5914.4
21°	5316.9
22.5°	4550.3
23°	4298.1
24°	3913.6
25°	3556.0
26°	3279.3
27°	3061.3
28°	2885.0
29°	2740.5
30°	2583.7
32.5°	2079.2
35°	1386.2
37.5°	705.3
40°	200.8
42.5°	46.5
45°	26.9
47.5°	17.1
50°	9.8
52.5°	7.3
55°	4.9
57.5°	4.9
60°	2.4
62.5°	2.4
65°	0.0

TEST NUMBER: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	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

TEST NUMBER: P979576

CATALOG NUMBER: PRLX-CYL6-940-74L-MD-U-S-X-X-BLAK

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