

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: P979505

Luminaire Tested: PRLX-CYL6-940-12L-FL-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-12L-FL-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE BLACK TRIM WITH FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

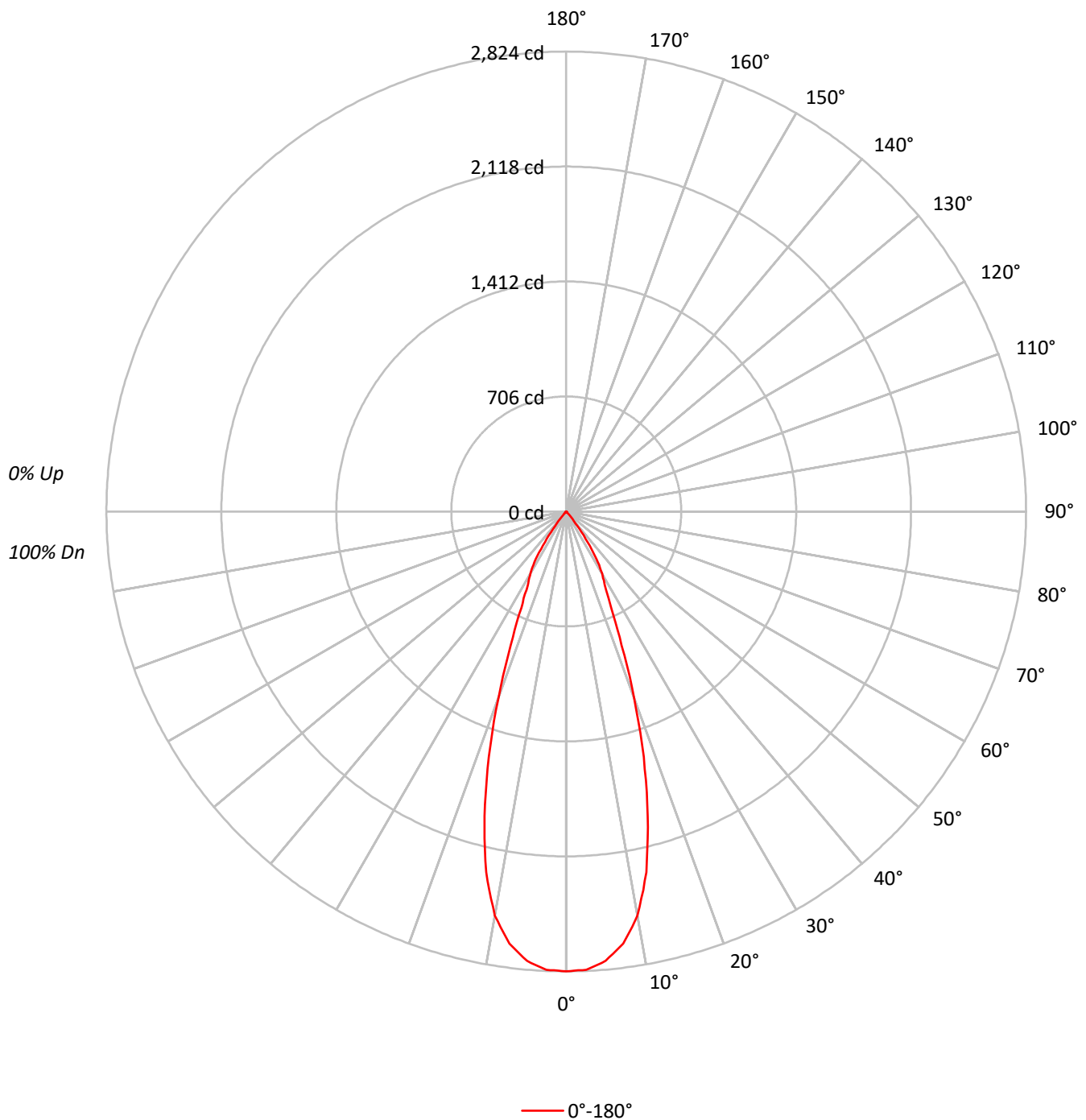
Lumens per Lamp: N/A
Luminaire Lumens: 1252.7 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.58
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28433
5°	28008
10°	25780
15°	20196
20°	12996
25°	7240
30°	5113
35°	2806
40°	336
45°	108
50°	56
55°	42
60°	24
65°	19
70°	24
75°	16
80°	23
85°	46

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 108 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	20.5
10°-20°	523.2	41.8
20°-30°	322.5	25.7
30°-40°	139.2	11.1
40°-50°	7.2	0.6
50°-60°	2.0	0.2
60°-70°	0.8	0.1
70°-80°	0.6	0.0
80°-90°	0.4	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°	1102.4	88.0
0°-40°	1241.6	99.1
0°-60°	1250.9	99.9
0°-90°	1252.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2824	
5°	2771	257
15°	1937	523
25°	652	323
35°	228	139
45°	8	7
55°	2	2
65°	1	1
75°	0	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2823.8
2.5°	2816.6
5°	2771.0
7.5°	2676.0
10°	2521.4
12.5°	2269.9
15°	1937.4
17.5°	1581.0
20°	1212.9
22.5°	888.8
25°	651.7
27.5°	510.3
30°	439.8
32.5°	349.3
35°	228.3
37.5°	110.6
40°	25.6
42.5°	10.8
45°	7.6
47.5°	5.2
50°	3.6
52.5°	2.8
55°	2.4
57.5°	1.6
60°	1.2
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
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	0.00	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