

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: P979479

Luminaire Tested: PRLX-CYL6-935-48L-WD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-935-48L-WD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH WIDE FLOOD OPTIC
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

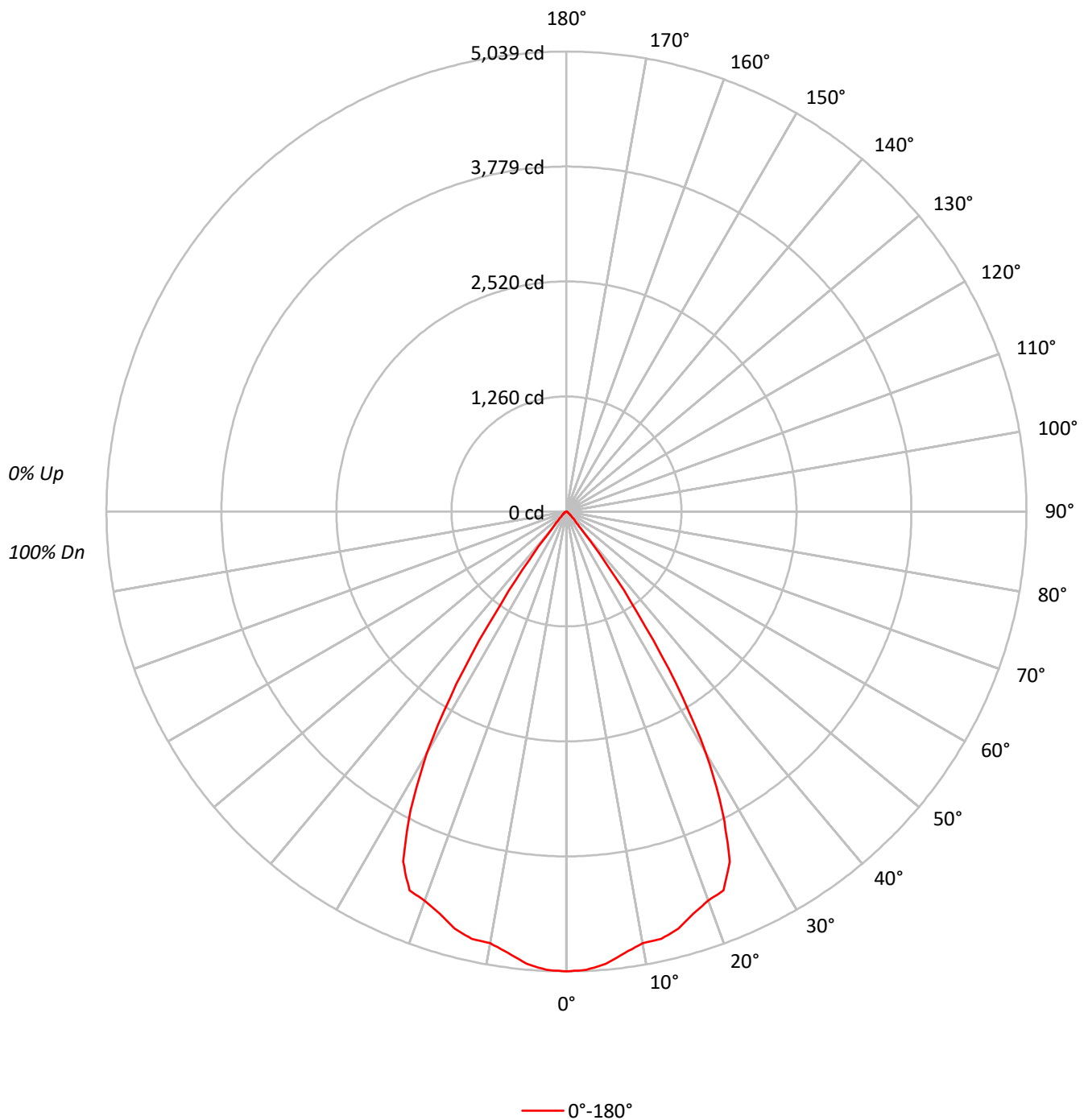
Lumens per Lamp: N/A
Luminaire Lumens: 4669.4 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	109	106	111	109	107	105	105	103	102		101	100	98		98
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93
3	103	97	92	88	101	96	91	88	93	89	86		91	87	85		88
4	98	91	86	82	96	90	85	81	88	83	80		86	82	79		84
5	93	85	80	76	92	84	79	75	83	78	75		81	77	74		79
6	89	80	75	70	87	80	74	70	78	73	70		77	72	69		75
7	85	76	70	66	83	75	70	66	74	69	65		73	68	65		71
8	81	71	66	62	79	71	65	62	70	65	61		69	64	61		68
9	77	68	62	58	76	67	62	58	66	61	58		65	61	57		64
10	73	64	58	55	72	64	58	54	63	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50736
5°	50296
10°	49111
15°	49337
20°	48633
25°	47027
30°	35578
35°	16616
40°	3136
45°	1329
50°	694
55°	456
60°	308
65°	181
70°	224
75°	237
80°	267
85°	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.7	10.0
10°-20°	1329.6	28.5
20°-30°	1856.7	39.8
30°-40°	890.4	19.1
40°-50°	82.1	1.8
50°-60°	23.6	0.5
60°-70°	9.2	0.2
70°-80°	6.4	0.1
80°-90°	2.7	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°	3654.9	78.3
0°-40°	4545.3	97.3
0°-60°	4651.1	99.6
0°-90°	4669.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5039	
5°	4976	469
15°	4733	1330
25°	4233	1857
35°	1352	890
45°	93	82
55°	26	24
65°	8	9
75°	6	6
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5038.8
2.5°	5026.5
5°	4976.1
7.5°	4878.2
10°	4803.3
12.5°	4797.1
15°	4732.9
17.5°	4621.3
20°	4538.7
22.5°	4491.3
25°	4232.9
27.5°	3699.2
30°	3060.0
32.5°	2240.3
35°	1351.8
37.5°	659.1
40°	238.6
42.5°	134.6
45°	93.3
47.5°	64.2
50°	44.3
52.5°	32.1
55°	26.0
57.5°	18.4
60°	15.3
62.5°	10.7
65°	7.6
67.5°	7.6
70°	7.6
72.5°	6.1
75°	6.1
77.5°	6.1
80°	4.6
82.5°	3.1
85°	3.1
87.5°	1.5
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	0.18	0.00	0.00	0.00	0.00	0.18
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	0.47	0.00	0.00	0.00	0.00	0.47
	8H	0.00	0.00	0.00	0.22	0.70	0.00	0.00	0.00	0.22	0.70
	12H	0.00	0.05	0.17	0.54	1.02	0.00	0.05	0.17	0.54	1.02
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	0.05	0.37	0.86	0.00	0.00	0.05	0.37	0.86
	8H	0.00	0.19	0.43	0.71	1.21	0.00	0.19	0.43	0.71	1.21
	12H	0.40	0.65	0.92	1.15	1.74	0.40	0.65	0.92	1.15	1.74
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	0.13	0.42	0.92	0.00	0.00	0.13	0.42	0.92
	8H	0.03	0.29	0.56	0.79	1.37	0.03	0.29	0.56	0.79	1.37

END OF REPORT