

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: P979549

Luminaire Tested: PRLX-CYL6-940-43L-WD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979549
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-CYL6-940-43L-WD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH WIDE FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

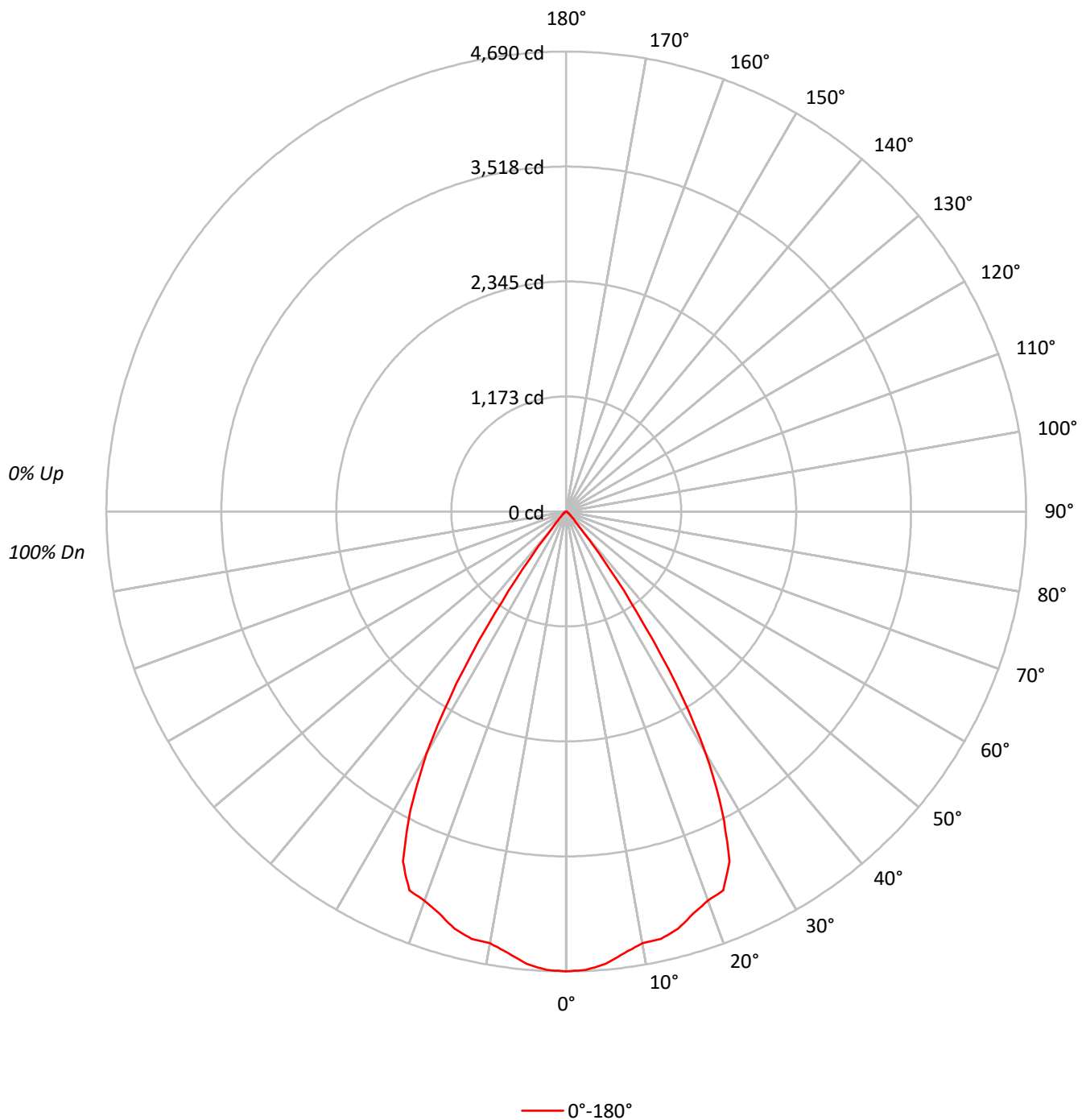
Lumens per Lamp: N/A
Luminaire Lumens: 4346.4 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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°	47225
5°	46816
10°	45712
15°	45924
20°	45269
25°	43773
30°	33115
35°	15467
40°	2919
45°	1236
50°	647
55°	425
60°	286
65°	169
70°	209
75°	222
80°	249
85°	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	10.0
10°-20°	1237.6	28.5
20°-30°	1728.2	39.8
30°-40°	828.8	19.1
40°-50°	76.4	1.8
50°-60°	22.0	0.5
60°-70°	8.6	0.2
70°-80°	6.0	0.1
80°-90°	2.5	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°	3402.0	78.3
0°-40°	4230.9	97.3
0°-60°	4329.3	99.6
0°-90°	4346.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4690	
5°	4632	436
15°	4406	1238
25°	3940	1728
35°	1258	829
45°	87	76
55°	24	22
65°	7	9
75°	6	6
85°	3	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4690.1
2.5°	4678.7
5°	4631.8
7.5°	4540.7
10°	4470.9
12.5°	4465.2
15°	4405.5
17.5°	4301.5
20°	4224.7
22.5°	4180.6
25°	3940.0
27.5°	3443.2
30°	2848.2
32.5°	2085.3
35°	1258.3
37.5°	613.5
40°	222.1
42.5°	125.3
45°	86.8
47.5°	59.8
50°	41.3
52.5°	29.9
55°	24.2
57.5°	17.1
60°	14.2
62.5°	10.0
65°	7.1
67.5°	7.1
70°	7.1
72.5°	5.7
75°	5.7
77.5°	5.7
80°	4.3
82.5°	2.8
85°	2.8
87.5°	1.4
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	0.24	0.00	0.00	0.00	0.00	0.24
	8H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.45
	12H	0.00	0.00	0.00	0.27	0.74	0.00	0.00	0.00	0.27	0.74
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	0.14	0.63	0.00	0.00	0.00	0.14	0.63
	8H	0.00	0.00	0.18	0.46	0.96	0.00	0.00	0.18	0.46	0.96
	12H	0.12	0.37	0.64	0.87	1.45	0.12	0.37	0.64	0.87	1.45
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	0.18	0.68	0.00	0.00	0.00	0.18	0.68
	8H	0.00	0.03	0.30	0.53	1.11	0.00	0.03	0.30	0.53	1.11

END OF REPORT