

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: P979528

Luminaire Tested: PRLX-CYL6-940-23L-WD-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-23L-WD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH WIDE FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

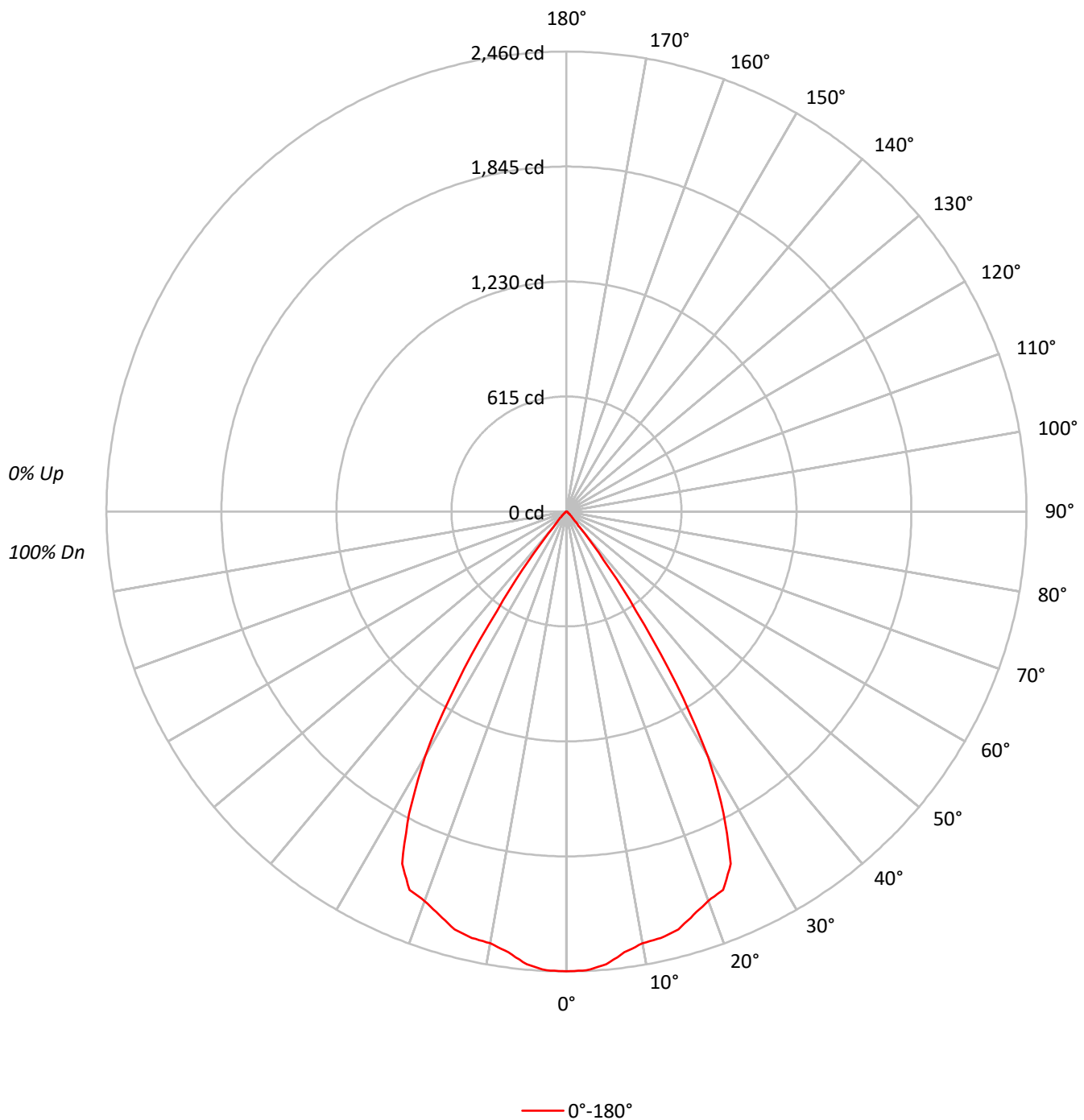
Lumens per Lamp: N/A
Luminaire Lumens: 2264.9 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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: P979528

CATALOG NUMBER: PRLX-CYL6-940-23L-WD-U-S-X-X-BLAK

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					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10		0			
R	C	R																								
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102		100			
1	114	111	109	107		111	109	107	105		105	103	102		101	100	99		98	97	96		94			
2	108	104	100	97		106	102	99	96		99	96	94		96	94	92		93	91	90		88			
3	103	97	92	89		101	96	92	88		93	90	87		91	88	85		89	86	84		82			
4	98	91	86	82		97	90	85	81		88	84	80		86	82	80		84	81	79		77			
5	94	86	80	76		92	85	80	76		83	78	75		81	77	74		80	76	74		72			
6	89	81	75	71		88	80	75	71		78	74	70		77	73	70		76	72	69		68			
7	85	76	70	66		84	75	70	66		74	69	66		73	69	65		72	68	65		64			
8	81	72	66	62		80	71	66	62		70	65	62		69	65	61		68	64	61		60			
9	77	68	62	58		76	67	62	58		66	62	58		66	61	58		65	61	58		56			
10	74	64	59	55		73	64	59	55		63	58	55		62	58	55		62	57	54		53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24766
5°	24581
10°	23977
15°	24117
20°	23753
25°	23092
30°	17609
35°	7963
40°	1445
45°	537
50°	241
55°	121
60°	46
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	10.1
10°-20°	649.5	28.7
20°-30°	910.8	40.2
30°-40°	434.1	19.2
40°-50°	34.6	1.5
50°-60°	6.5	0.3
60°-70°	0.5	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°	1789.2	79.0
0°-40°	2223.3	98.2
0°-60°	2264.4	100.0
0°-90°	2264.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2460	
5°	2432	229
15°	2314	650
25°	2078	911
35°	648	434
45°	38	35
55°	7	7
65°	0	0
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P979528

CATALOG NUMBER: PRLX-CYL6-940-23L-WD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

0°	
0°	2459.6
2.5°	2457.3
5°	2432.0
7.5°	2378.9
10°	2345.1
12.5°	2336.7
15°	2313.6
17.5°	2262.1
20°	2216.8
22.5°	2190.7
25°	2078.5
27.5°	1820.3
30°	1514.5
32.5°	1093.4
35°	647.8
37.5°	324.3
40°	109.9
42.5°	58.4
45°	37.7
47.5°	24.6
50°	15.4
52.5°	10.0
55°	6.9
57.5°	3.8
60°	2.3
62.5°	0.8
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