

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: P979514

Luminaire Tested: PRLX-CYL6-940-18L-FL-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-18L-FL-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

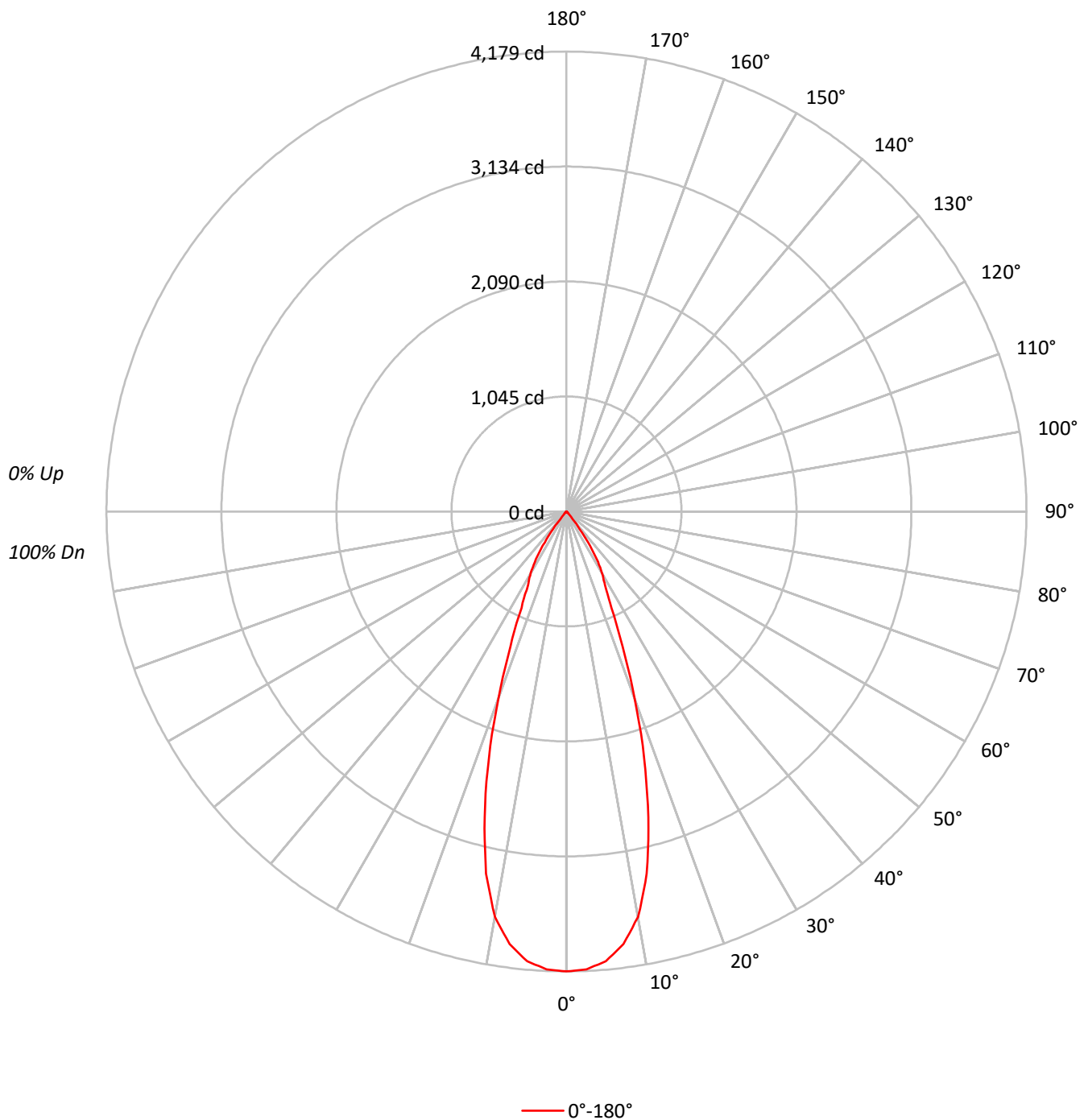
Lumens per Lamp: N/A
Luminaire Lumens: 1855.2 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.59
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10		0			
RCR																										
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102		100			
1	114	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97		95			
2	110	106	102	100		108	104	101	99		101	99	96		98	96	94		95	94	92		91			
3	106	100	96	93		104	99	95	92		96	93	91		94	92	89		92	90	88		87			
4	102	95	91	87		100	94	90	87		92	89	86		90	87	85		89	86	84		83			
5	98	91	86	83		96	90	85	82		88	84	81		87	83	81		85	82	80		79			
6	94	87	82	78		93	86	81	78		85	81	78		83	80	77		82	79	77		75			
7	91	83	78	75		89	82	78	74		81	77	74		80	76	74		79	76	73		72			
8	87	79	75	71		86	79	74	71		78	74	71		77	73	70		76	73	70		69			
9	84	76	71	68		83	76	71	68		75	71	68		74	70	68		73	70	67		66			
10	81	73	68	65		80	73	68	65		72	68	65		71	68	65		71	67	65		64			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42075
5°	41455
10°	38252
15°	29980
20°	19355
25°	10733
30°	7535
35°	4217
40°	515
45°	142
50°	64
55°	32
60°	12
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	20.5
10°-20°	776.9	41.9
20°-30°	479.3	25.8
30°-40°	207.0	11.2
40°-50°	10.0	0.5
50°-60°	1.8	0.1
60°-70°	0.2	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°	1636.2	88.2
0°-40°	1843.2	99.4
0°-60°	1855.0	100.0
0°-90°	1855.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1855.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4179	
5°	4101	380
15°	2876	777
25°	966	479
35°	343	207
45°	10	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4178.7
2.5°	4164.6
5°	4101.4
7.5°	3963.2
10°	3741.3
12.5°	3369.5
15°	2876.0
17.5°	2346.1
20°	1806.3
22.5°	1329.1
25°	966.1
27.5°	754.7
30°	648.1
32.5°	515.2
35°	343.1
37.5°	166.3
40°	39.2
42.5°	15.2
45°	10.0
47.5°	6.4
50°	4.1
52.5°	2.9
55°	1.8
57.5°	1.2
60°	0.6
62.5°	0.6
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