

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: P979295

Luminaire Tested: PRLX-CYL6-927-31L-FL-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979295
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-CYL6-927-31L-FL-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE BLACK TRIM WITH FLOOD OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

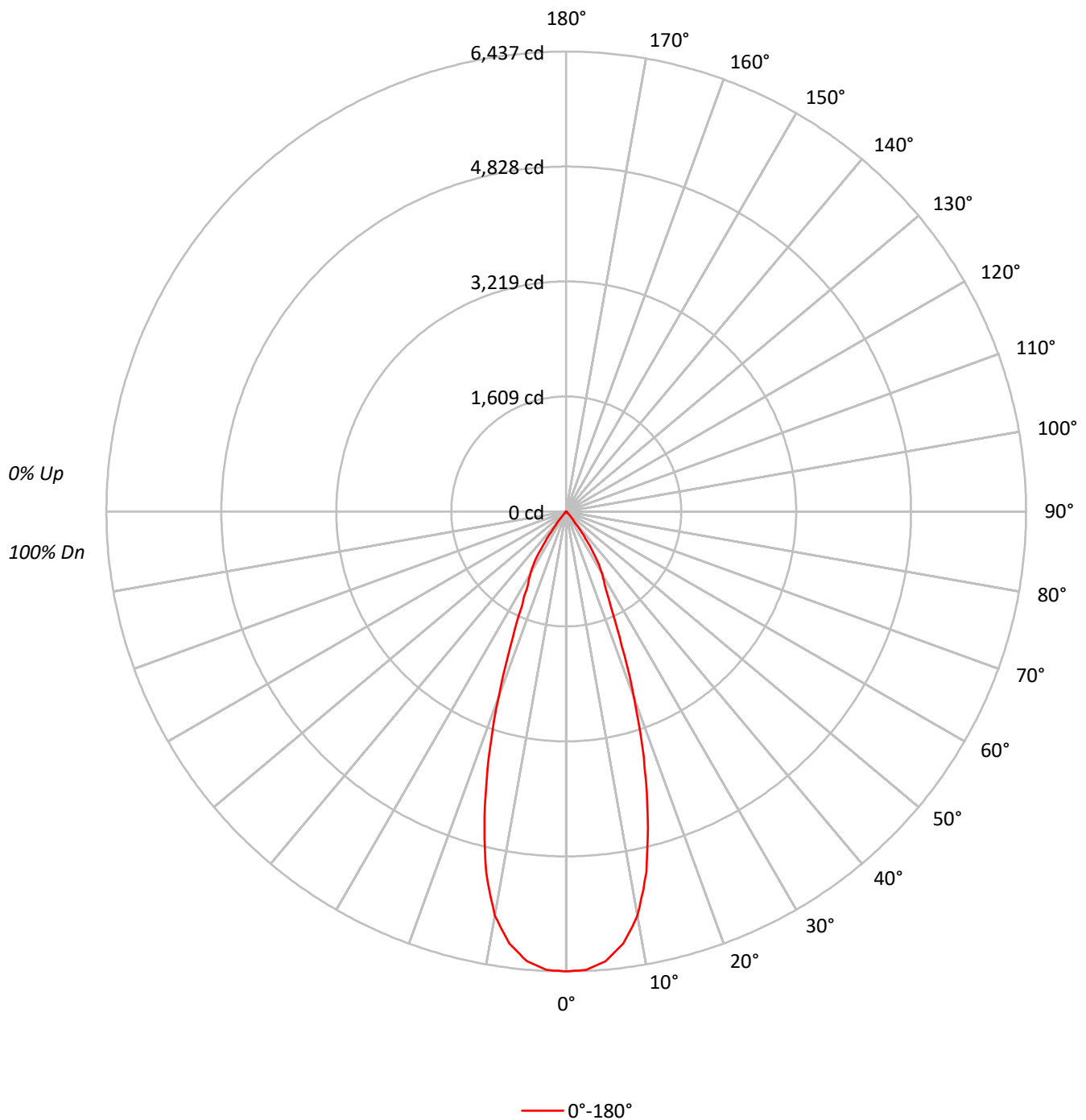
Lumens per Lamp: N/A
Luminaire Lumens: 2855.4 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.58
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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

TEST NUMBER: P979295

CATALOG NUMBER: PRLX-CYL6-927-31L-FL-U-S-X-X-WHTE

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	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	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	98	101	98	96	98	96	94	95	94	92	91							
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86							
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82							
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79							
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75							
7	90	83	78	74	89	82	78	74	81	77	74	80	76	73	79	76	73	72							
8	87	79	74	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	67	73	70	67	66							
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	71	67	65	64							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64813
5°	63843
10°	58764
15°	46036
20°	29624
25°	16504
30°	11656
35°	6397
40°	768
45°	246
50°	128
55°	97
60°	54
65°	43
70°	53
75°	35
80°	52
85°	104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.9	20.5
10°-20°	1192.7	41.8
20°-30°	735.2	25.7
30°-40°	317.4	11.1
40°-50°	16.5	0.6
50°-60°	4.7	0.2
60°-70°	1.9	0.1
70°-80°	1.3	0.0
80°-90°	0.9	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°	2512.8	88.0
0°-40°	2830.2	99.1
0°-60°	2851.3	99.9
0°-90°	2855.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6437	
5°	6316	585
15°	4416	1193
25°	1486	735
35°	520	317
45°	17	16
55°	6	5
65°	2	2
75°	1	1
85°	1	1
90°	0	

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CATALOG NUMBER: PRLX-CYL6-927-31L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	6436.9
2.5°	6420.4
5°	6316.4
7.5°	6100.0
10°	5747.5
12.5°	5174.2
15°	4416.3
17.5°	3603.7
20°	2764.7
22.5°	2026.0
25°	1485.5
27.5°	1163.2
30°	1002.5
32.5°	796.2
35°	520.4
37.5°	252.0
40°	58.4
42.5°	24.7
45°	17.3
47.5°	11.9
50°	8.2
52.5°	6.4
55°	5.5
57.5°	3.7
60°	2.7
62.5°	1.8
65°	1.8
67.5°	1.8
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.9
87.5°	0.9
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