

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: P979269

Luminaire Tested: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979269
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-CYL6-927-12L-WD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH WIDE FLOOD OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

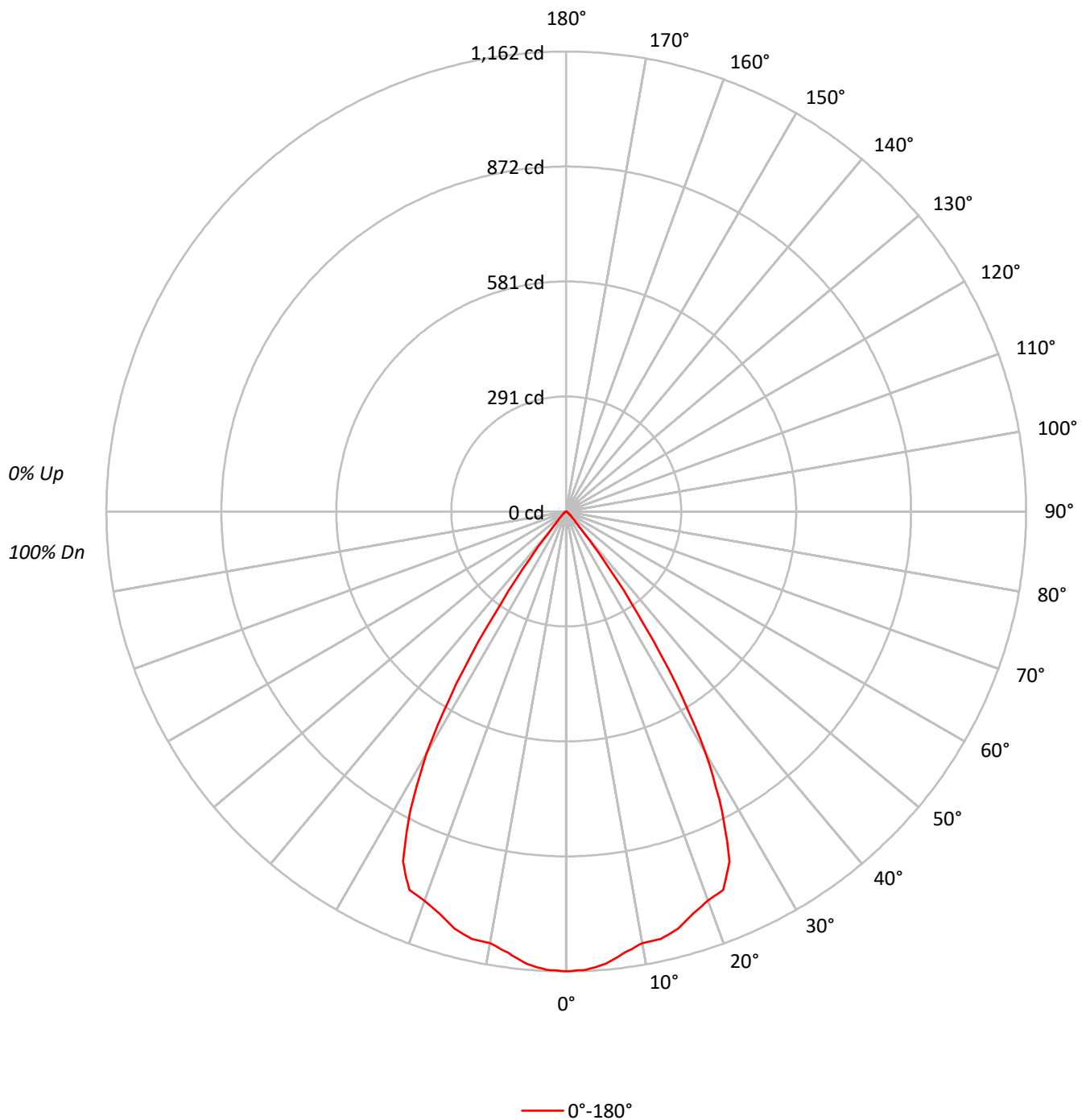
Lumens per Lamp: N/A
Luminaire Lumens: 1076.7 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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: P979269

CATALOG NUMBER: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

Luminous Intensity Polar Plot



TEST NUMBER: P979269

CATALOG NUMBER: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57
10	73	64	58	55	72	64	58	54	63	58	54	62	57	54	61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11698
5°	11597
10°	11323
15°	11376
20°	11213
25°	10843
30°	8204
35°	3831
40°	723
45°	306
50°	160
55°	105
60°	70
65°	43
70°	53
75°	54
80°	64
85°	81

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 306 cd/sqm

TEST NUMBER: P979269

CATALOG NUMBER: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	10.0
10°-20°	306.6	28.5
20°-30°	428.1	39.8
30°-40°	205.3	19.1
40°-50°	18.9	1.8
50°-60°	5.4	0.5
60°-70°	2.2	0.2
70°-80°	1.5	0.1
80°-90°	0.6	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°	842.7	78.3
0°-40°	1048.1	97.3
0°-60°	1072.4	99.6
0°-90°	1076.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1162	
5°	1147	108
15°	1091	307
25°	976	428
35°	312	205
45°	22	19
55°	6	5
65°	2	2
75°	1	1
85°	1	1
90°	0	

TEST NUMBER: P979269

CATALOG NUMBER: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

	0°
0°	1161.8
2.5°	1159.0
5°	1147.4
7.5°	1124.8
10°	1107.5
12.5°	1106.1
15°	1091.3
17.5°	1065.6
20°	1046.5
22.5°	1035.6
25°	976.0
27.5°	852.9
30°	705.6
32.5°	516.6
35°	311.7
37.5°	152.0
40°	55.0
42.5°	31.0
45°	21.5
47.5°	14.8
50°	10.2
52.5°	7.4
55°	6.0
57.5°	4.2
60°	3.5
62.5°	2.5
65°	1.8
67.5°	1.8
70°	1.8
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.1
82.5°	0.7
85°	0.7
87.5°	0.4
90°	0.0

TEST NUMBER: P979269

CATALOG NUMBER: PRLX-CYL6-927-12L-WD-U-S-X-X-WHTE

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