

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: P979535

Luminaire Tested: PRLX-CYL6-940-31L-FL-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979535
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-CYL6-940-31L-FL-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE BLACK TRIM WITH FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

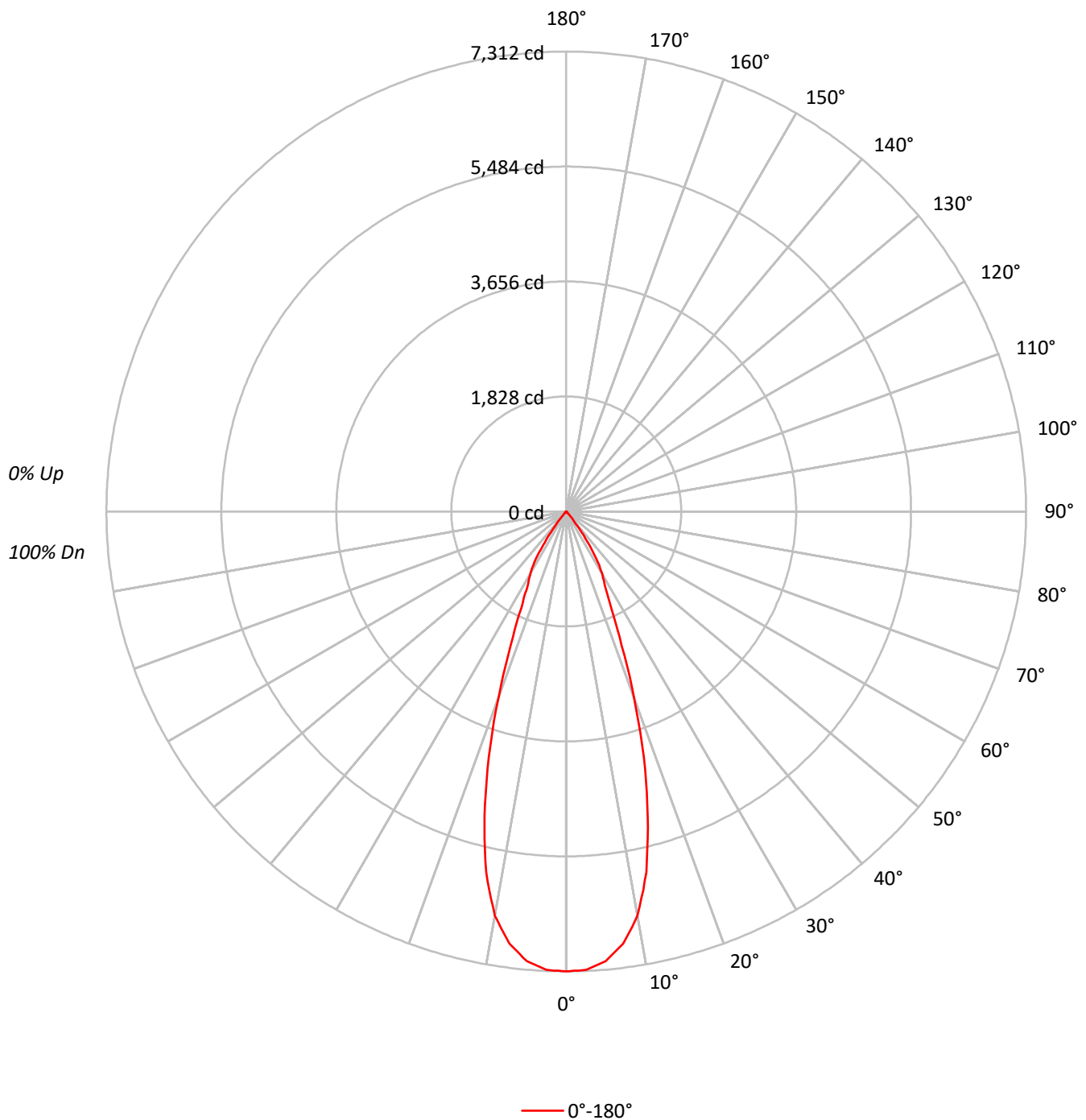
Lumens per Lamp: N/A
Luminaire Lumens: 3243.7 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.58
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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: P979535

CATALOG NUMBER: PRLX-CYL6-940-31L-FL-U-S-X-X-WHTE

Luminous Intensity Polar Plot





TEST NUMBER: P979535

CATALOG NUMBER: PRLX-CYL6-940-31L-FL-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	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°	73626
5°	72522
10°	66755
15°	52296
20°	33652
25°	18748
30°	13240
35°	7267
40°	873
45°	281
50°	146
55°	109
60°	62
65°	50
70°	62
75°	39
80°	58
85°	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 281 cd/sqm

TEST NUMBER: P979535

CATALOG NUMBER: PRLX-CYL6-940-31L-FL-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.5	20.5
10°-20°	1354.9	41.8
20°-30°	835.2	25.7
30°-40°	360.6	11.1
40°-50°	18.7	0.6
50°-60°	5.3	0.2
60°-70°	2.2	0.1
70°-80°	1.5	0.0
80°-90°	1.0	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°	2854.5	88.0
0°-40°	3215.0	99.1
0°-60°	3239.0	99.9
0°-90°	3243.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7312	
5°	7175	664
15°	5017	1355
25°	1688	835
35°	591	361
45°	20	19
55°	6	5
65°	2	2
75°	1	1
85°	1	1
90°	0	

TEST NUMBER: P979535

CATALOG NUMBER: PRLX-CYL6-940-31L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	7312.1
2.5°	7293.4
5°	7175.1
7.5°	6929.3
10°	6529.0
12.5°	5877.6
15°	5016.8
17.5°	4093.7
20°	3140.6
22.5°	2301.5
25°	1687.5
27.5°	1321.4
30°	1138.8
32.5°	904.4
35°	591.2
37.5°	286.3
40°	66.4
42.5°	28.0
45°	19.7
47.5°	13.5
50°	9.3
52.5°	7.3
55°	6.2
57.5°	4.1
60°	3.1
62.5°	2.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	2.1
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	1.0
87.5°	1.0
90°	0.0

TEST NUMBER: P979535

CATALOG NUMBER: PRLX-CYL6-940-31L-FL-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