

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: P979457

Luminaire Tested: PRLX-CYL6-935-31L-MD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-935-31L-MD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH MEDIUM OPTIC
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

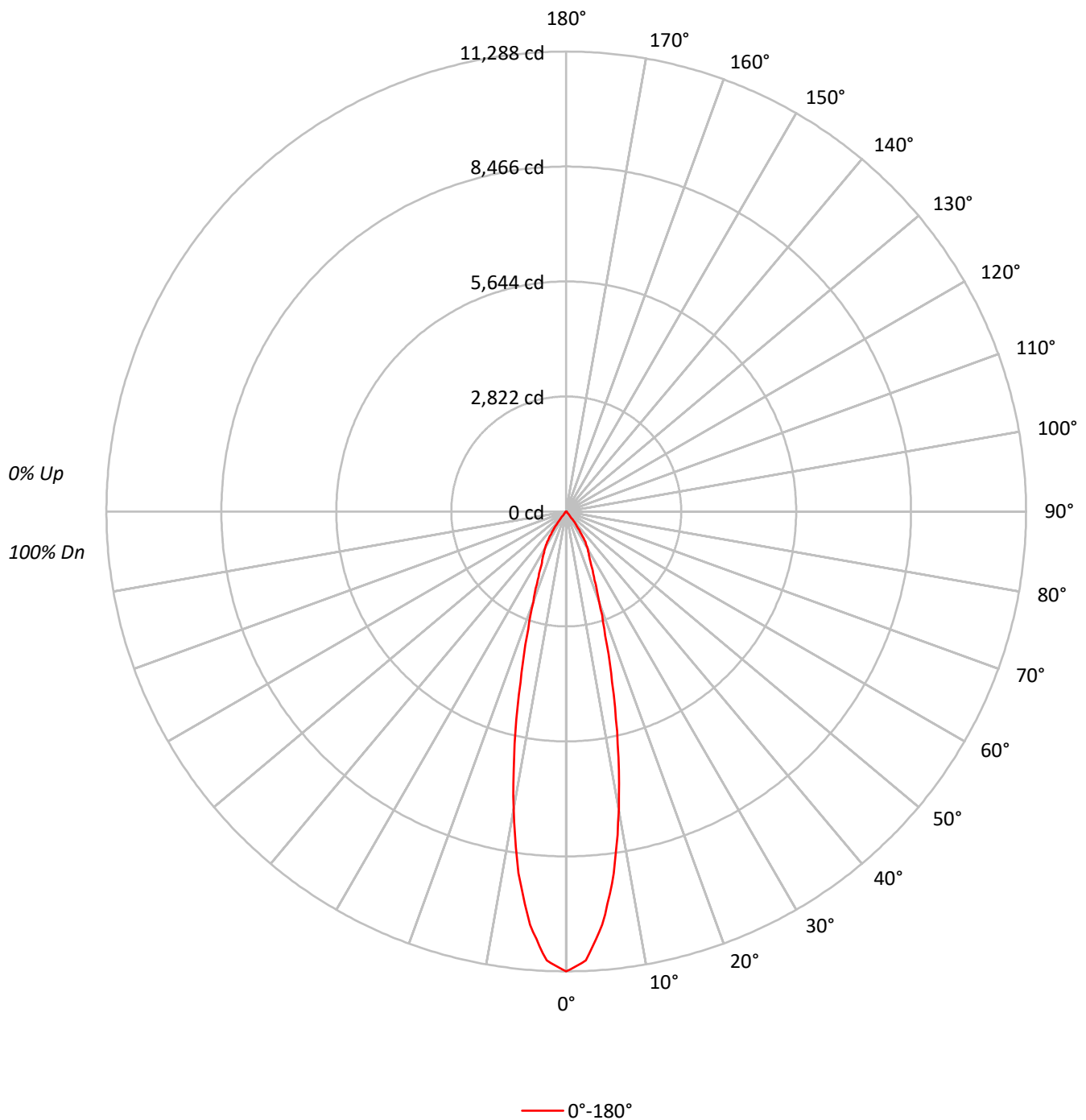
Lumens per Lamp: N/A
Luminaire Lumens: 3168.8 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
R																				
C	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
R	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	
C	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92	
R	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	
C	4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	
R	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	
C	6	95	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79	77	
R	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75	
C	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	
R	9	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	70	69	
C	10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68	67	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113659
5°	102904
10°	75957
15°	45251
20°	25331
25°	15921
30°	12138
35°	6908
40°	1183
45°	214
50°	110
55°	88
60°	60
65°	48
70°	59
75°	78
80°	58
85°	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.0	27.9
10°-20°	1220.9	38.5
20°-30°	695.5	21.9
30°-40°	341.1	10.8
40°-50°	17.8	0.6
50°-60°	4.5	0.1
60°-70°	2.3	0.1
70°-80°	1.7	0.1
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°	2800.4	88.4
0°-40°	3141.5	99.1
0°-60°	3163.8	99.8
0°-90°	3168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11288	
5°	10181	884
15°	4341	1221
25°	1433	696
35°	562	341
45°	15	18
55°	5	4
65°	2	2
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11288
2.5°	11034
5°	10181
7.5°	8952
10°	7429
12.5°	5848
15°	4341
17.5°	3194
20°	2364
22.5°	1818
25°	1433
27.5°	1206
30°	1044
32.5°	839
35°	562
37.5°	283
40°	90
42.5°	23
45°	15
47.5°	9
50°	7
52.5°	6
55°	5
57.5°	4
60°	3
62.5°	3
65°	2
67.5°	2
70°	2
72.5°	2
75°	2
77.5°	1
80°	1
82.5°	1
85°	1
87.5°	1
90°	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