

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: P979539

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979539
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-CYL6-940-31L-WD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH WIDE FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

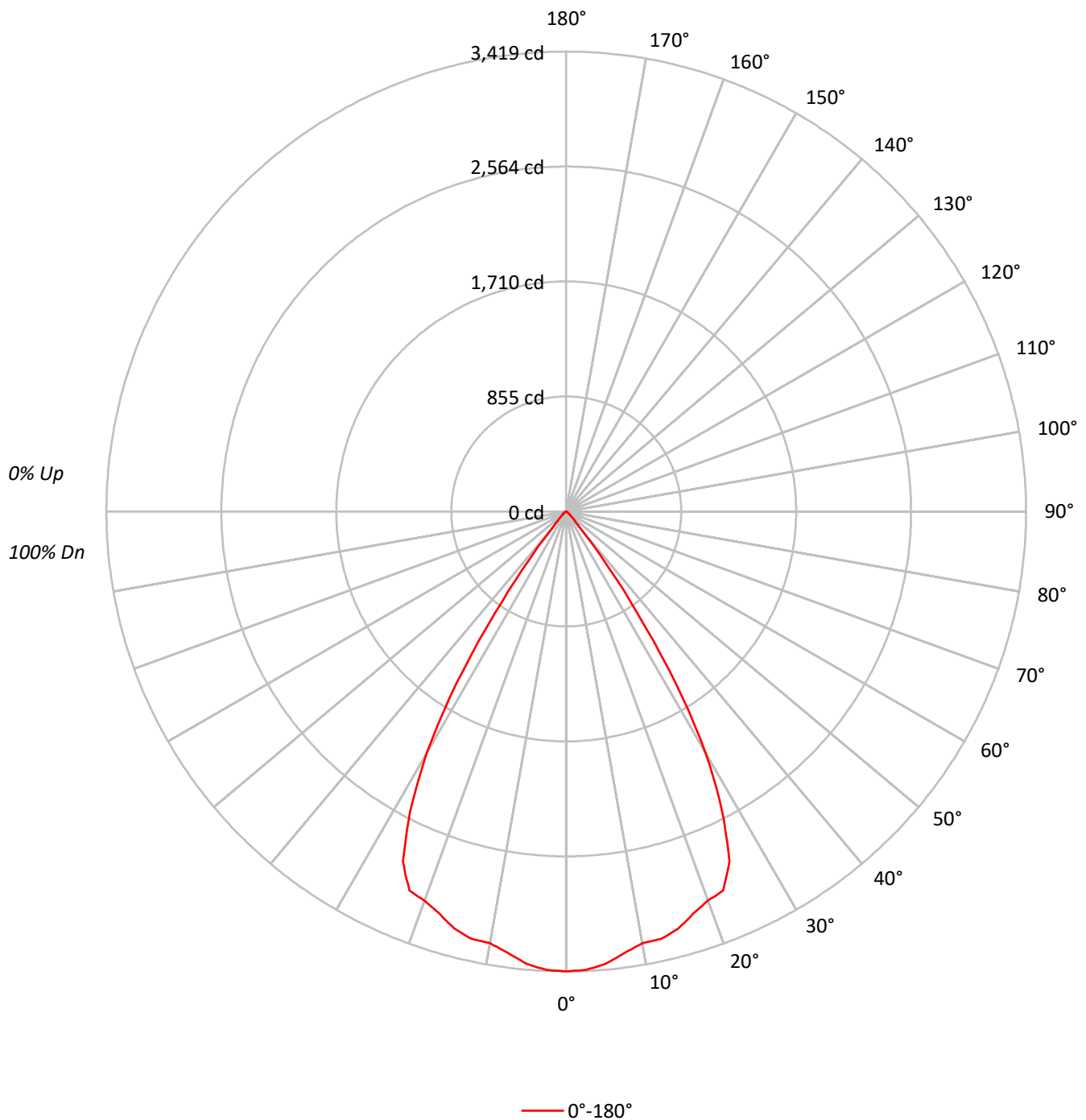
Lumens per Lamp: N/A
Luminaire Lumens: 3168.7 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94							
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88							
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82							
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77							
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72							
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67							
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63							
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59							
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56							
10	73	64	58	55	72	64	58	54	63	58	54	62	57	54	61	57	54	53							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34428
5°	34130
10°	33325
15°	33479
20°	33002
25°	31911
30°	24142
35°	11275
40°	2128
45°	901
50°	472
55°	309
60°	209
65°	124
70°	153
75°	163
80°	180
85°	243

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 901 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	10.0
10°-20°	902.2	28.5
20°-30°	1259.9	39.8
30°-40°	604.2	19.1
40°-50°	55.7	1.8
50°-60°	16.0	0.5
60°-70°	6.3	0.2
70°-80°	4.4	0.1
80°-90°	1.8	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°	2480.2	78.3
0°-40°	3084.4	97.3
0°-60°	3156.1	99.6
0°-90°	3168.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3419	
5°	3377	318
15°	3212	902
25°	2872	1260
35°	917	604
45°	63	56
55°	18	16
65°	5	6
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3419.2
2.5°	3410.9
5°	3376.7
7.5°	3310.3
10°	3259.4
12.5°	3255.3
15°	3211.7
17.5°	3135.9
20°	3079.9
22.5°	3047.7
25°	2872.3
27.5°	2510.2
30°	2076.4
32.5°	1520.2
35°	917.3
37.5°	447.2
40°	161.9
42.5°	91.3
45°	63.3
47.5°	43.6
50°	30.1
52.5°	21.8
55°	17.6
57.5°	12.5
60°	10.4
62.5°	7.3
65°	5.2
67.5°	5.2
70°	5.2
72.5°	4.2
75°	4.2
77.5°	4.2
80°	3.1
82.5°	2.1
85°	2.1
87.5°	1.0
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	0.42	0.00	0.00	0.00	0.00	0.42
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	0.05	0.00	0.00	0.00	0.00	0.05

END OF REPORT