

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: P979371

Luminaire Tested: PRLX-240-930-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

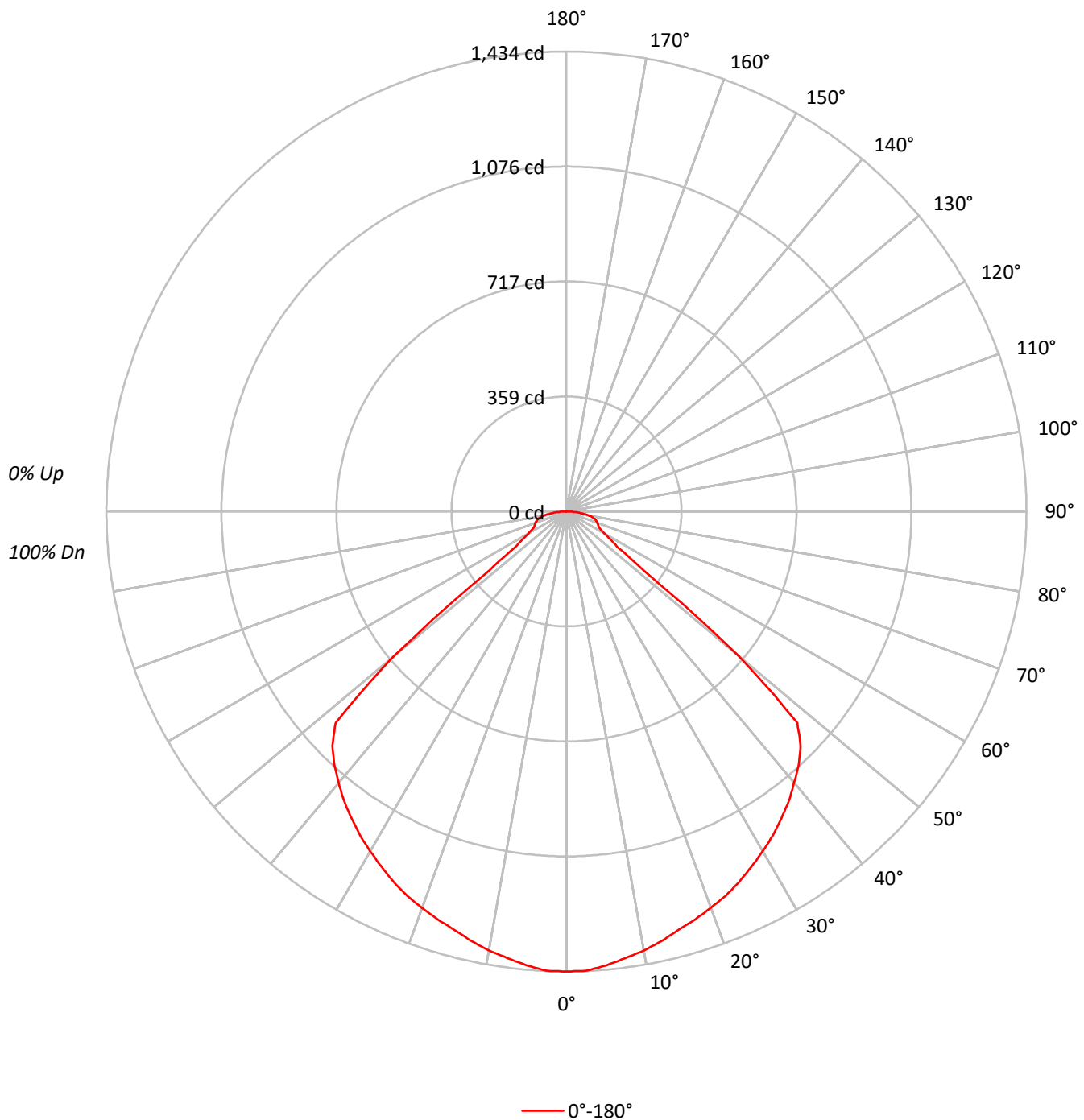
Lumens per Lamp: N/A
Luminaire Lumens: 3087.3 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14444
5°	14362
10°	14211
15°	14076
20°	14095
25°	14163
30°	14225
35°	14361
40°	14516
45°	14693
50°	10978
55°	3416
60°	2729
65°	2628
70°	3021
75°	3579
80°	4100
85°	4020

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 14693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.4
10°-20°	382.2	12.4
20°-30°	587.7	19.0
30°-40°	731.6	23.7
40°-50°	767.5	24.9
50°-60°	237.3	7.7
60°-70°	112.5	3.6
70°-80°	95.0	3.1
80°-90°	38.8	1.3
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°	1104.5	35.8
0°-40°	1836.1	59.5
0°-60°	2840.9	92.0
0°-90°	3087.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1434	
5°	1421	135
15°	1350	382
25°	1275	588
35°	1168	732
45°	1032	768
55°	195	237
65°	110	112
75°	92	95
85°	35	39
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1434.5
2.5°	1433.5
5°	1420.9
7.5°	1404.5
10°	1389.9
12.5°	1371.6
15°	1350.3
17.5°	1333.8
20°	1315.4
22.5°	1297.0
25°	1274.8
27.5°	1248.6
30°	1223.5
32.5°	1197.3
35°	1168.3
37.5°	1138.3
40°	1104.4
42.5°	1071.5
45°	1031.8
47.5°	975.7
50°	700.8
52.5°	301.0
55°	194.6
57.5°	161.6
60°	135.5
62.5°	118.1
65°	110.3
67.5°	106.5
70°	102.6
72.5°	97.8
75°	92.0
77.5°	83.2
80°	70.7
82.5°	53.2
85°	34.8
87.5°	19.4
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	12.26	13.68	12.62	14.00	14.31	12.26	13.68	12.62	14.00	14.31
	3H	14.22	15.49	14.60	15.82	16.18	14.22	15.49	14.60	15.82	16.18
	4H	15.38	16.56	15.78	16.91	17.30	15.38	16.56	15.78	16.91	17.30
	6H	16.51	17.60	16.93	17.97	18.36	16.51	17.60	16.93	17.97	18.36
	8H	16.94	17.97	17.37	18.36	18.77	16.94	17.97	17.37	18.36	18.77
	12H	17.24	18.23	17.68	18.62	19.05	17.24	18.23	17.68	18.62	19.05
4H	2H	12.77	13.95	13.17	14.30	14.68	12.77	13.95	13.17	14.30	14.68
	3H	15.14	16.10	15.55	16.51	16.91	15.14	16.10	15.55	16.51	16.91
	4H	16.52	17.38	16.95	17.80	18.24	16.52	17.38	16.95	17.80	18.24
	6H	17.84	18.59	18.30	19.04	19.50	17.84	18.59	18.30	19.04	19.50
	8H	18.34	19.04	18.80	19.49	19.96	18.34	19.04	18.80	19.49	19.96
	12H	18.70	19.33	19.19	19.82	20.29	18.70	19.33	19.19	19.82	20.29
8H	4H	17.05	17.75	17.51	18.20	18.67	17.05	17.75	17.51	18.20	18.67
	6H	18.55	19.14	19.05	19.63	20.11	18.55	19.14	19.05	19.63	20.11
	8H	19.16	19.69	19.67	20.20	20.69	19.16	19.69	19.67	20.20	20.69
	12H	19.63	20.11	20.15	20.61	21.17	19.63	20.11	20.15	20.61	21.17
12H	4H	17.14	17.77	17.63	18.25	18.73	17.14	17.77	17.63	18.25	18.73
	6H	18.69	19.22	19.21	19.74	20.22	18.69	19.22	19.21	19.74	20.22
	8H	19.37	19.85	19.88	20.34	20.91	19.37	19.85	19.88	20.34	20.91

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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