

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: P979373

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-31L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

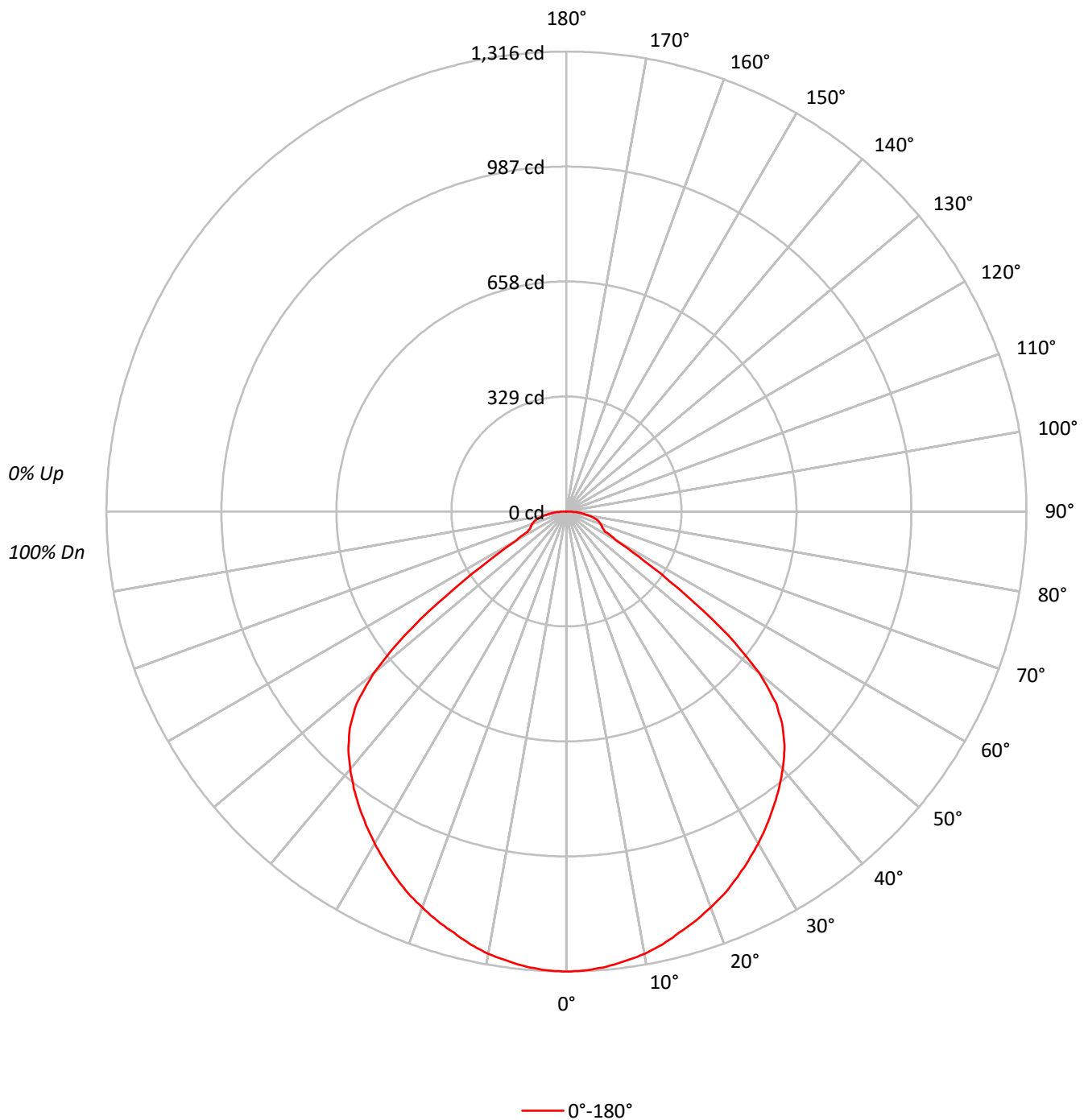
Lumens per Lamp: N/A
Luminaire Lumens: 2945.8 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13255
5°	13218
10°	13142
15°	13006
20°	12923
25°	12840
30°	12751
35°	12695
40°	12646
45°	12474
50°	11296
55°	7340
60°	3313
65°	2721
70°	3076
75°	3427
80°	3589
85°	3685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12474 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	4.2
10°-20°	352.5	12.0
20°-30°	532.7	18.1
30°-40°	646.5	21.9
40°-50°	666.5	22.6
50°-60°	378.0	12.8
60°-70°	119.5	4.1
70°-80°	91.2	3.1
80°-90°	34.7	1.2
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°	1009.3	34.3
0°-40°	1655.8	56.2
0°-60°	2700.2	91.7
0°-90°	2945.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1308	124
15°	1248	353
25°	1156	533
35°	1033	646
45°	876	666
55°	418	378
65°	114	120
75°	88	91
85°	32	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1316.4
2.5°	1314.4
5°	1307.7
7.5°	1297.0
10°	1285.4
12.5°	1269.0
15°	1247.7
17.5°	1228.3
20°	1206.0
22.5°	1182.8
25°	1155.7
27.5°	1126.7
30°	1096.7
32.5°	1065.7
35°	1032.8
37.5°	998.9
40°	962.1
42.5°	923.4
45°	876.0
47.5°	814.0
50°	721.1
52.5°	584.6
55°	418.1
57.5°	262.3
60°	164.5
62.5°	124.9
65°	114.2
67.5°	109.4
70°	104.5
72.5°	97.8
75°	88.1
77.5°	76.5
80°	61.9
82.5°	47.4
85°	31.9
87.5°	17.4
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	15.62	17.09	15.98	17.40	17.71	15.62	17.09	15.98	17.40	17.71
	3H	16.51	17.81	16.89	18.14	18.51	16.51	17.81	16.89	18.14	18.51
	4H	17.12	18.34	17.52	18.69	19.07	17.12	18.34	17.52	18.69	19.07
	6H	17.71	18.84	18.13	19.21	19.60	17.71	18.84	18.13	19.21	19.60
	8H	17.95	19.02	18.38	19.41	19.81	17.95	19.02	18.38	19.41	19.81
	12H	18.14	19.16	18.57	19.54	19.97	18.14	19.16	18.57	19.54	19.97
4H	2H	15.74	16.96	16.14	17.31	17.69	15.74	16.96	16.14	17.31	17.69
	3H	16.98	17.98	17.39	18.38	18.78	16.98	17.98	17.39	18.38	18.78
	4H	17.81	18.70	18.24	19.12	19.56	17.81	18.70	18.24	19.12	19.56
	6H	18.61	19.39	19.07	19.83	20.30	18.61	19.39	19.07	19.83	20.30
	8H	18.93	19.66	19.40	20.10	20.57	18.93	19.66	19.40	20.10	20.57
	12H	19.19	19.84	19.67	20.32	20.79	19.19	19.84	19.67	20.32	20.79
8H	4H	18.12	18.85	18.59	19.29	19.76	18.12	18.85	18.59	19.29	19.76
	6H	19.09	19.70	19.59	20.19	20.67	19.09	19.70	19.59	20.19	20.67
	8H	19.51	20.06	20.02	20.57	21.06	19.51	20.06	20.02	20.57	21.06
	12H	19.88	20.37	20.39	20.86	21.43	19.88	20.37	20.39	20.86	21.43
12H	4H	18.16	18.81	18.65	19.29	19.77	18.16	18.81	18.65	19.29	19.77
	6H	19.17	19.72	19.69	20.23	20.72	19.17	19.72	19.69	20.23	20.72
	8H	19.66	20.16	20.17	20.65	21.21	19.66	20.16	20.17	20.65	21.21