

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: P980011

Luminaire Tested: PRLX-242-930-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

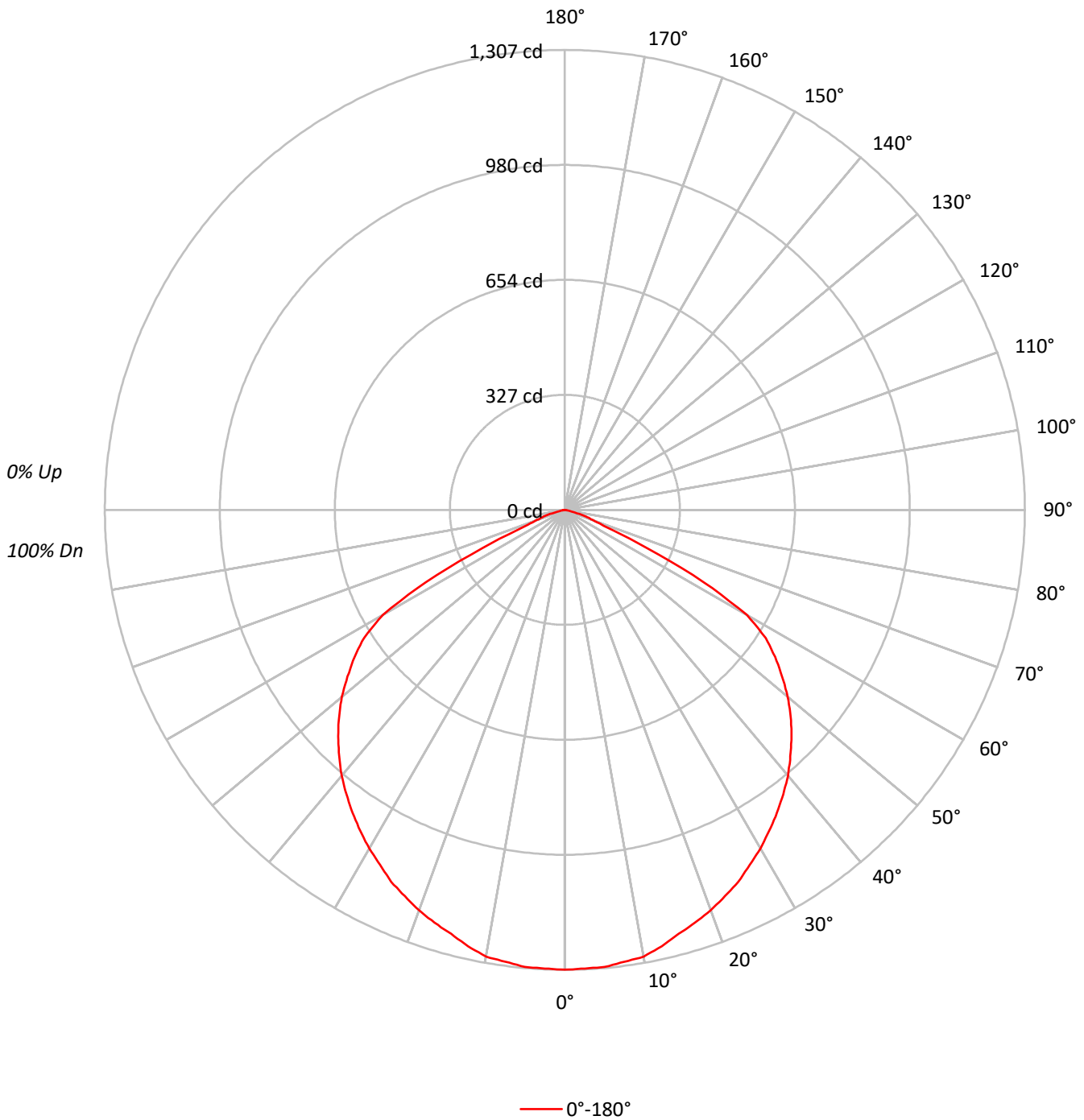
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3348.2 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' 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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5848
5°	5857
10°	5859
15°	5781
20°	5767
25°	5759
30°	5742
35°	5743
40°	5762
45°	5764
50°	5755
55°	5687
60°	5345
65°	2736
70°	1102
75°	519
80°	101
85°	149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	3.7
10°-20°	353.0	10.5
20°-30°	537.1	16.0
30°-40°	658.1	19.7
40°-50°	702.3	21.0
50°-60°	647.6	19.3
60°-70°	285.1	8.5
70°-80°	38.2	1.1
80°-90°	2.9	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°	1014.0	30.3
0°-40°	1672.2	49.9
0°-60°	3022.0	90.3
0°-90°	3348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1307	
5°	1304	124
15°	1248	353
25°	1166	537
35°	1051	658
45°	911	702
55°	729	648
65°	258	285
75°	30	38
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1306.7
2.5°	1304.8
5°	1303.8
7.5°	1295.1
10°	1289.3
12.5°	1269.9
15°	1247.7
17.5°	1230.2
20°	1210.9
22.5°	1188.6
25°	1166.4
27.5°	1137.3
30°	1111.2
32.5°	1081.2
35°	1051.2
37.5°	1019.2
40°	986.3
42.5°	948.6
45°	910.8
47.5°	870.2
50°	826.6
52.5°	778.2
55°	728.9
57.5°	676.6
60°	597.2
62.5°	444.3
65°	258.4
67.5°	120.0
70°	84.2
72.5°	62.9
75°	30.0
77.5°	8.7
80°	3.9
82.5°	3.9
85°	2.9
87.5°	1.9
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	18.97	20.52	19.34	20.84	21.15	18.97	20.52	19.34	20.84	21.15
	3H	19.02	20.40	19.40	20.72	21.09	19.02	20.40	19.40	20.72	21.09
	4H	18.99	20.27	19.39	20.62	21.00	18.99	20.27	19.39	20.62	21.00
	6H	18.93	20.11	19.34	20.48	20.87	18.93	20.11	19.34	20.48	20.87
	8H	18.89	20.02	19.32	20.41	20.81	18.89	20.02	19.32	20.41	20.81
	12H	18.86	19.94	19.29	20.32	20.75	18.86	19.94	19.29	20.32	20.75
4H	2H	19.07	20.35	19.47	20.70	21.08	19.07	20.35	19.47	20.70	21.08
	3H	19.16	20.21	19.57	20.61	21.01	19.16	20.21	19.57	20.61	21.01
	4H	19.12	20.06	19.56	20.47	20.91	19.12	20.06	19.56	20.47	20.91
	6H	19.07	19.87	19.52	20.32	20.78	19.07	19.87	19.52	20.32	20.78
	8H	19.02	19.77	19.49	20.22	20.69	19.02	19.77	19.49	20.22	20.69
	12H	18.99	19.66	19.47	20.14	20.61	18.99	19.66	19.47	20.14	20.61
8H	4H	19.04	19.79	19.50	20.23	20.70	19.04	19.79	19.50	20.23	20.70
	6H	18.96	19.57	19.45	20.06	20.54	18.96	19.57	19.45	20.06	20.54
	8H	18.90	19.46	19.42	19.97	20.46	18.90	19.46	19.42	19.97	20.46
	12H	18.87	19.36	19.38	19.85	20.42	18.87	19.36	19.38	19.85	20.42
12H	4H	19.00	19.67	19.48	20.15	20.62	19.00	19.67	19.48	20.15	20.62
	6H	18.90	19.46	19.42	19.97	20.46	18.90	19.46	19.42	19.97	20.46
	8H	18.87	19.36	19.38	19.85	20.42	18.87	19.36	19.38	19.85	20.42