

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: P980083

Luminaire Tested: PRLX-242-935-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

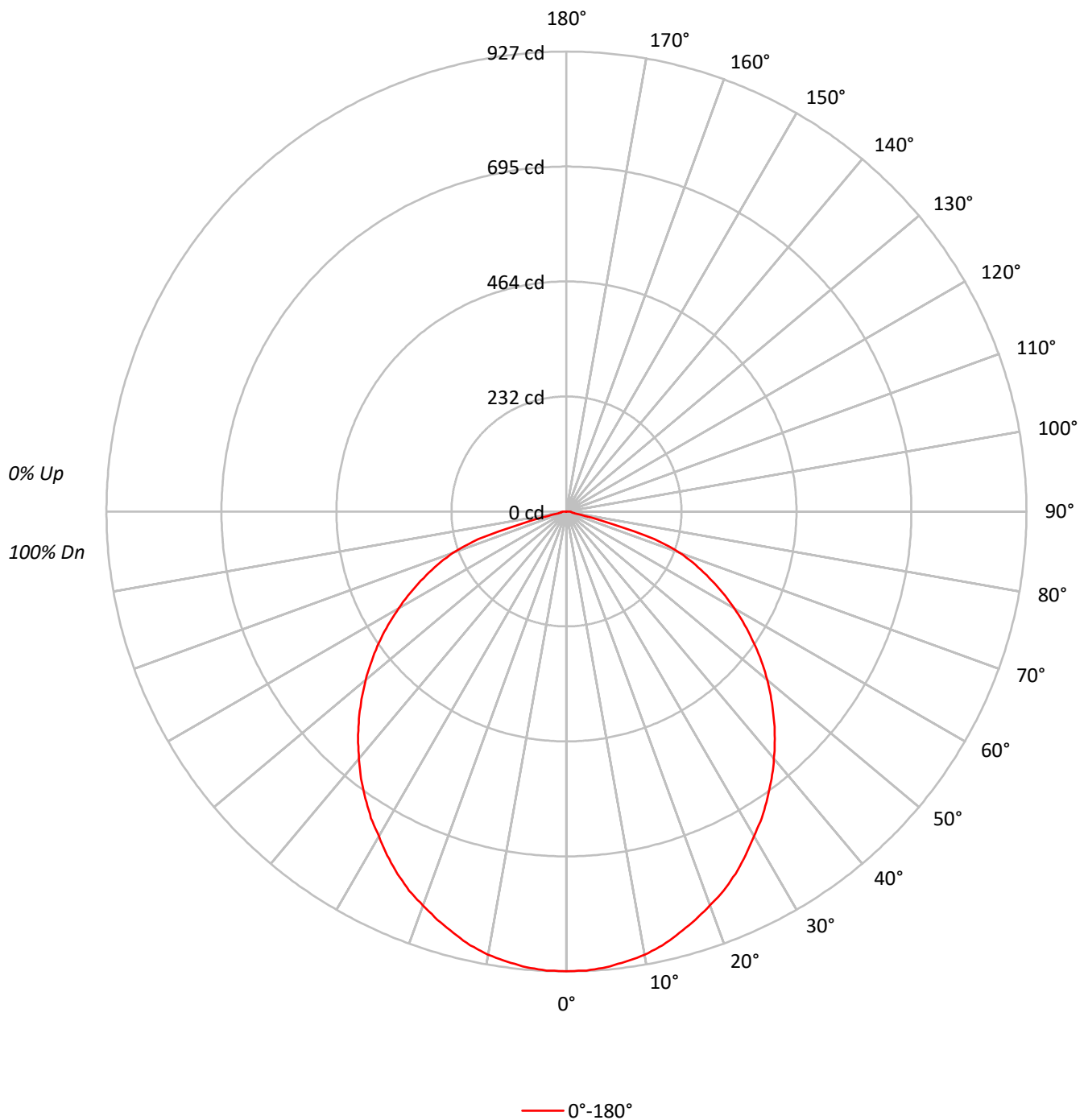
Lumens per Lamp: N/A
Luminaire Lumens: 2445.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4148
5°	4144
10°	4124
15°	4074
20°	4026
25°	3980
30°	3905
35°	3857
40°	3800
45°	3742
50°	3677
55°	3595
60°	3494
65°	3365
70°	3180
75°	1319
80°	286
85°	457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.6
10°-20°	248.2	10.1
20°-30°	370.9	15.2
30°-40°	441.8	18.1
40°-50°	456.1	18.7
50°-60°	411.7	16.8
60°-70°	314.5	12.9
70°-80°	106.2	4.3
80°-90°	8.2	0.3
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°	706.6	28.9
0°-40°	1148.3	47.0
0°-60°	2016.1	82.5
0°-90°	2445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	927	
5°	922	88
15°	879	248
25°	806	371
35°	706	442
45°	591	456
55°	461	412
65°	318	314
75°	76	106
85°	9	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	926.8
2.5°	926.1
5°	922.4
7.5°	915.0
10°	907.5
12.5°	895.7
15°	879.4
17.5°	863.1
20°	845.3
22.5°	827.5
25°	806.0
27.5°	781.6
30°	755.7
32.5°	732.7
35°	706.0
37.5°	679.4
40°	650.5
42.5°	621.6
45°	591.2
47.5°	560.1
50°	528.2
52.5°	494.9
55°	460.8
57.5°	426.0
60°	390.4
62.5°	354.9
65°	317.8
67.5°	281.5
70°	243.0
72.5°	186.0
75°	76.3
77.5°	16.3
80°	11.1
82.5°	10.4
85°	8.9
87.5°	5.2
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	16.80	18.40	17.16	18.72	19.03	16.80	18.40	17.16	18.72	19.03
	3H	18.63	20.07	19.00	20.39	20.76	18.63	20.07	19.00	20.39	20.76
	4H	18.86	20.21	19.26	20.56	20.94	18.86	20.21	19.26	20.56	20.94
	6H	18.81	20.06	19.22	20.42	20.81	18.81	20.06	19.22	20.42	20.81
	8H	18.78	19.97	19.20	20.36	20.76	18.78	19.97	19.20	20.36	20.76
	12H	18.76	19.90	19.18	20.28	20.71	18.76	19.90	19.18	20.28	20.71
4H	2H	17.45	18.80	17.85	19.15	19.53	17.45	18.80	17.85	19.15	19.53
	3H	19.45	20.58	19.86	20.98	21.38	19.45	20.58	19.86	20.98	21.38
	4H	19.67	20.68	20.10	21.09	21.53	19.67	20.68	20.10	21.09	21.53
	6H	19.63	20.51	20.09	20.95	21.41	19.63	20.51	20.09	20.95	21.41
	8H	19.60	20.42	20.06	20.86	21.33	19.60	20.42	20.06	20.86	21.33
	12H	19.58	20.31	20.06	20.79	21.26	19.58	20.31	20.06	20.79	21.26
8H	4H	19.72	20.54	20.19	20.98	21.45	19.72	20.54	20.19	20.98	21.45
	6H	19.67	20.34	20.17	20.83	21.31	19.67	20.34	20.17	20.83	21.31
	8H	19.64	20.24	20.15	20.74	21.23	19.64	20.24	20.15	20.74	21.23
	12H	19.63	20.15	20.14	20.64	21.21	19.63	20.15	20.14	20.64	21.21
12H	4H	19.70	20.43	20.18	20.91	21.38	19.70	20.43	20.18	20.91	21.38
	6H	19.63	20.23	20.14	20.74	21.22	19.63	20.23	20.14	20.74	21.22
	8H	19.62	20.14	20.13	20.64	21.20	19.62	20.14	20.13	20.64	21.20