

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: P980073

Luminaire Tested: PRLX-242-935-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980073
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-242-935-18L-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

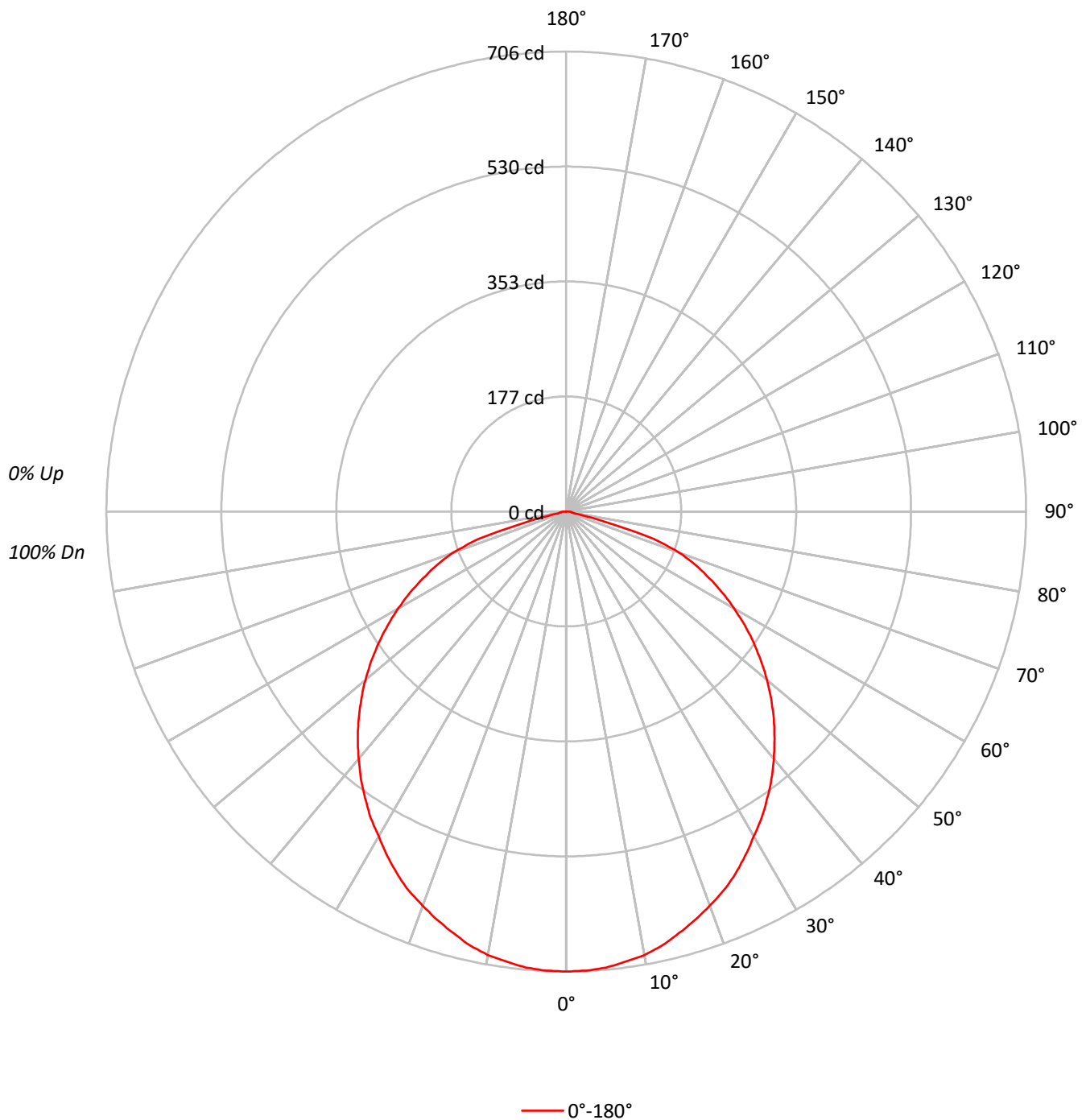
Lumens per Lamp: N/A
Luminaire Lumens: 1863.0 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	3160
5°	3157
10°	3142
15°	3105
20°	3067
25°	3033
30°	2975
35°	2939
40°	2895
45°	2851
50°	2802
55°	2739
60°	2663
65°	2565
70°	2423
75°	1005
80°	219
85°	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.6
10°-20°	189.1	10.1
20°-30°	282.6	15.2
30°-40°	336.6	18.1
40°-50°	347.5	18.7
50°-60°	313.7	16.8
60°-70°	239.6	12.9
70°-80°	80.9	4.3
80°-90°	6.2	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°	538.4	28.9
0°-40°	875.0	47.0
0°-60°	1536.3	82.5
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	706	
5°	703	67
15°	670	189
25°	614	283
35°	538	337
45°	450	348
55°	351	314
65°	242	240
75°	58	81
85°	7	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	706.2
2.5°	705.6
5°	702.8
7.5°	697.2
10°	691.5
12.5°	682.5
15°	670.1
17.5°	657.7
20°	644.1
22.5°	630.6
25°	614.2
27.5°	595.6
30°	575.8
32.5°	558.3
35°	538.0
37.5°	517.7
40°	495.6
42.5°	473.6
45°	450.5
47.5°	426.8
50°	402.5
52.5°	377.1
55°	351.1
57.5°	324.6
60°	297.5
62.5°	270.4
65°	242.2
67.5°	214.5
70°	185.2
72.5°	141.7
75°	58.1
77.5°	12.4
80°	8.5
82.5°	7.9
85°	6.8
87.5°	4.0
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	15.85	17.46	16.22	17.77	18.09	15.85	17.46	16.22	17.77	18.09
	3H	17.68	19.12	18.06	19.45	19.81	17.68	19.12	18.06	19.45	19.81
	4H	17.91	19.27	18.31	19.61	19.99	17.91	19.27	18.31	19.61	19.99
	6H	17.86	19.11	18.27	19.48	19.87	17.86	19.11	18.27	19.48	19.87
	8H	17.83	19.03	18.26	19.41	19.81	17.83	19.03	18.26	19.41	19.81
	12H	17.81	18.95	18.24	19.33	19.76	17.81	18.95	18.24	19.33	19.76
4H	2H	16.50	17.86	16.90	18.21	18.58	16.50	17.86	16.90	18.21	18.58
	3H	18.51	19.63	18.92	20.03	20.43	18.51	19.63	18.92	20.03	20.43
	4H	18.73	19.74	19.16	20.15	20.59	18.73	19.74	19.16	20.15	20.59
	6H	18.69	19.56	19.14	20.00	20.46	18.69	19.56	19.14	20.00	20.46
	8H	18.66	19.47	19.12	19.92	20.38	18.66	19.47	19.12	19.92	20.38
	12H	18.64	19.37	19.12	19.84	20.31	18.64	19.37	19.12	19.84	20.31
8H	4H	18.78	19.60	19.24	20.04	20.51	18.78	19.60	19.24	20.04	20.51
	6H	18.73	19.40	19.22	19.89	20.36	18.73	19.40	19.22	19.89	20.36
	8H	18.69	19.29	19.21	19.80	20.29	18.69	19.29	19.21	19.80	20.29
	12H	18.69	19.21	19.19	19.70	20.26	18.69	19.21	19.19	19.70	20.26
12H	4H	18.76	19.48	19.24	19.96	20.43	18.76	19.48	19.24	19.96	20.43
	6H	18.68	19.28	19.20	19.79	20.28	18.68	19.28	19.20	19.79	20.28
	8H	18.68	19.20	19.18	19.69	20.25	18.68	19.20	19.18	19.69	20.25

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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