

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: P980393

Luminaire Tested: PRLX-243-935-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

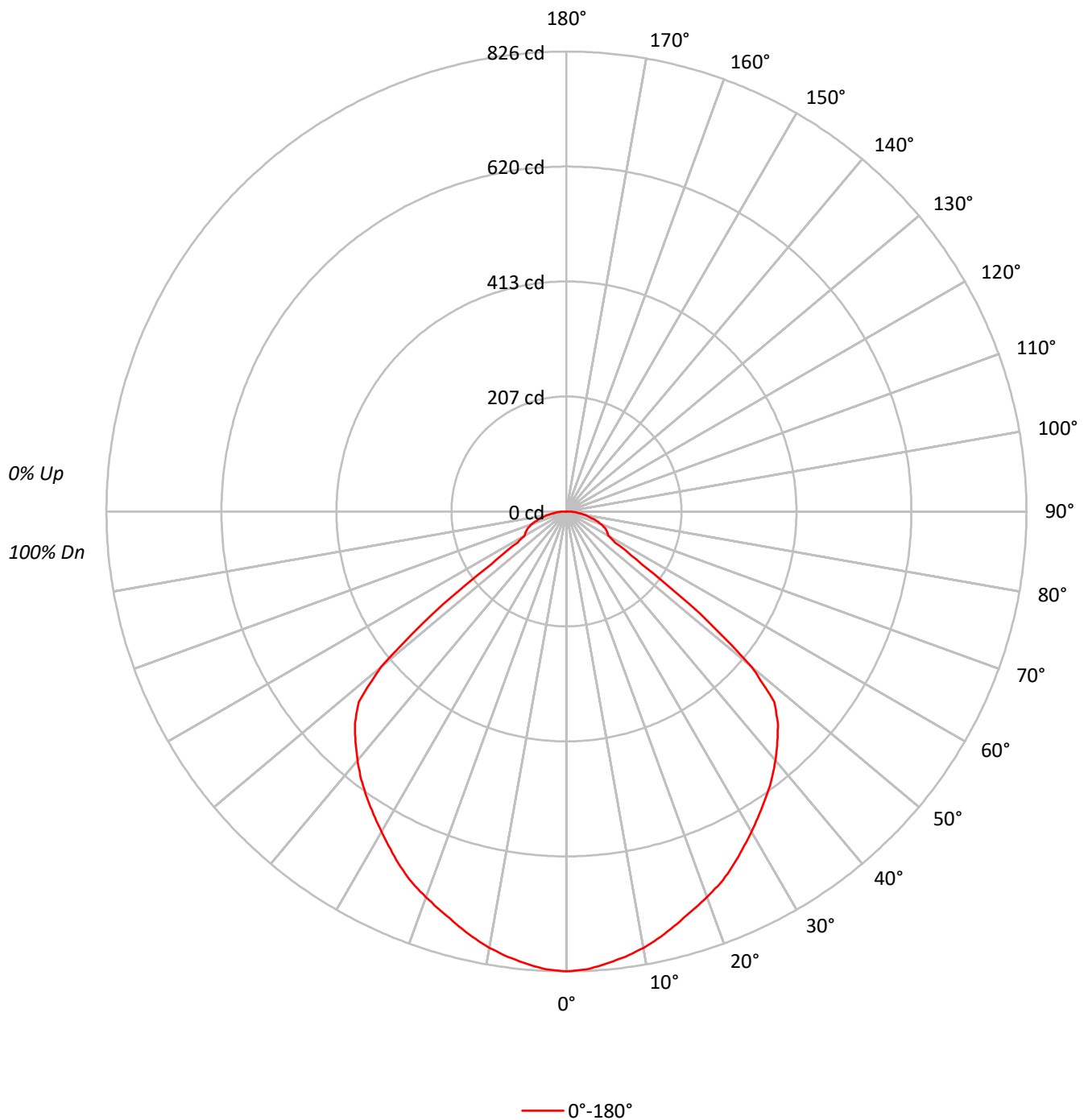
Lumens per Lamp: N/A
Luminaire Lumens: 1745.5 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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				0
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	90	86	82		87	84	80		77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		67
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		52
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		42
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4075
5°	4040
10°	3988
15°	3916
20°	3871
25°	3835
30°	3785
35°	3767
40°	3759
45°	3746
50°	3324
55°	1423
60°	857
65°	916
70°	945
75°	915
80°	881
85°	894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	4.4
10°-20°	216.5	12.4
20°-30°	324.4	18.6
30°-40°	391.6	22.4
40°-50°	407.4	23.3
50°-60°	183.3	10.5
60°-70°	76.9	4.4
70°-80°	50.8	2.9
80°-90°	17.3	1.0
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°	618.1	35.4
0°-40°	1009.8	57.9
0°-60°	1600.5	91.7
0°-90°	1745.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	826	
5°	816	77
15°	767	216
25°	704	324
35°	626	392
45°	537	407
55°	165	183
65°	78	77
75°	48	51
85°	16	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	825.9
2.5°	823.6
5°	815.7
7.5°	806.7
10°	796.0
12.5°	782.4
15°	766.6
17.5°	751.4
20°	737.3
22.5°	722.6
25°	704.5
27.5°	684.2
30°	664.4
32.5°	644.7
35°	625.5
37.5°	605.7
40°	583.7
42.5°	560.6
45°	536.9
47.5°	505.8
50°	433.0
52.5°	302.6
55°	165.4
57.5°	103.3
60°	86.9
62.5°	83.0
65°	78.5
67.5°	72.8
70°	65.5
72.5°	57.0
75°	48.0
77.5°	39.5
80°	31.0
82.5°	23.1
85°	15.8
87.5°	9.0
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	8.62	10.07	8.99	10.39	10.70	8.62	10.07	8.99	10.39	10.70
	3H	10.72	12.00	11.09	12.33	12.69	10.72	12.00	11.09	12.33	12.69
	4H	11.54	12.74	11.94	13.09	13.47	11.54	12.74	11.94	13.09	13.47
	6H	12.19	13.30	12.60	13.66	14.06	12.19	13.30	12.60	13.66	14.06
	8H	12.42	13.47	12.85	13.86	14.27	12.42	13.47	12.85	13.86	14.27
	12H	12.60	13.61	13.03	13.99	14.42	12.60	13.61	13.03	13.99	14.42
4H	2H	9.29	10.49	9.69	10.84	11.22	9.29	10.49	9.69	10.84	11.22
	3H	11.63	12.61	12.04	13.01	13.42	11.63	12.61	12.04	13.01	13.42
	4H	12.59	13.47	13.02	13.89	14.33	12.59	13.47	13.02	13.89	14.33
	6H	13.37	14.14	13.83	14.58	15.04	13.37	14.14	13.83	14.58	15.04
	8H	13.66	14.37	14.12	14.82	15.29	13.66	14.37	14.12	14.82	15.29
	12H	13.89	14.53	14.38	15.01	15.48	13.89	14.53	14.38	15.01	15.48
8H	4H	12.94	13.66	13.41	14.10	14.57	12.94	13.66	13.41	14.10	14.57
	6H	13.86	14.46	14.36	14.95	15.43	13.86	14.46	14.36	14.95	15.43
	8H	14.24	14.78	14.76	15.29	15.78	14.24	14.78	14.76	15.29	15.78
	12H	14.58	15.06	15.09	15.55	16.12	14.58	15.06	15.09	15.55	16.12
12H	4H	12.98	13.62	13.46	14.10	14.57	12.98	13.62	13.46	14.10	14.57
	6H	13.93	14.47	14.45	14.98	15.47	13.93	14.47	14.45	14.98	15.47
	8H	14.38	14.86	14.89	15.35	15.92	14.38	14.86	14.89	15.35	15.92

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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