

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: P979753

Luminaire Tested: PRLX-241-935-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

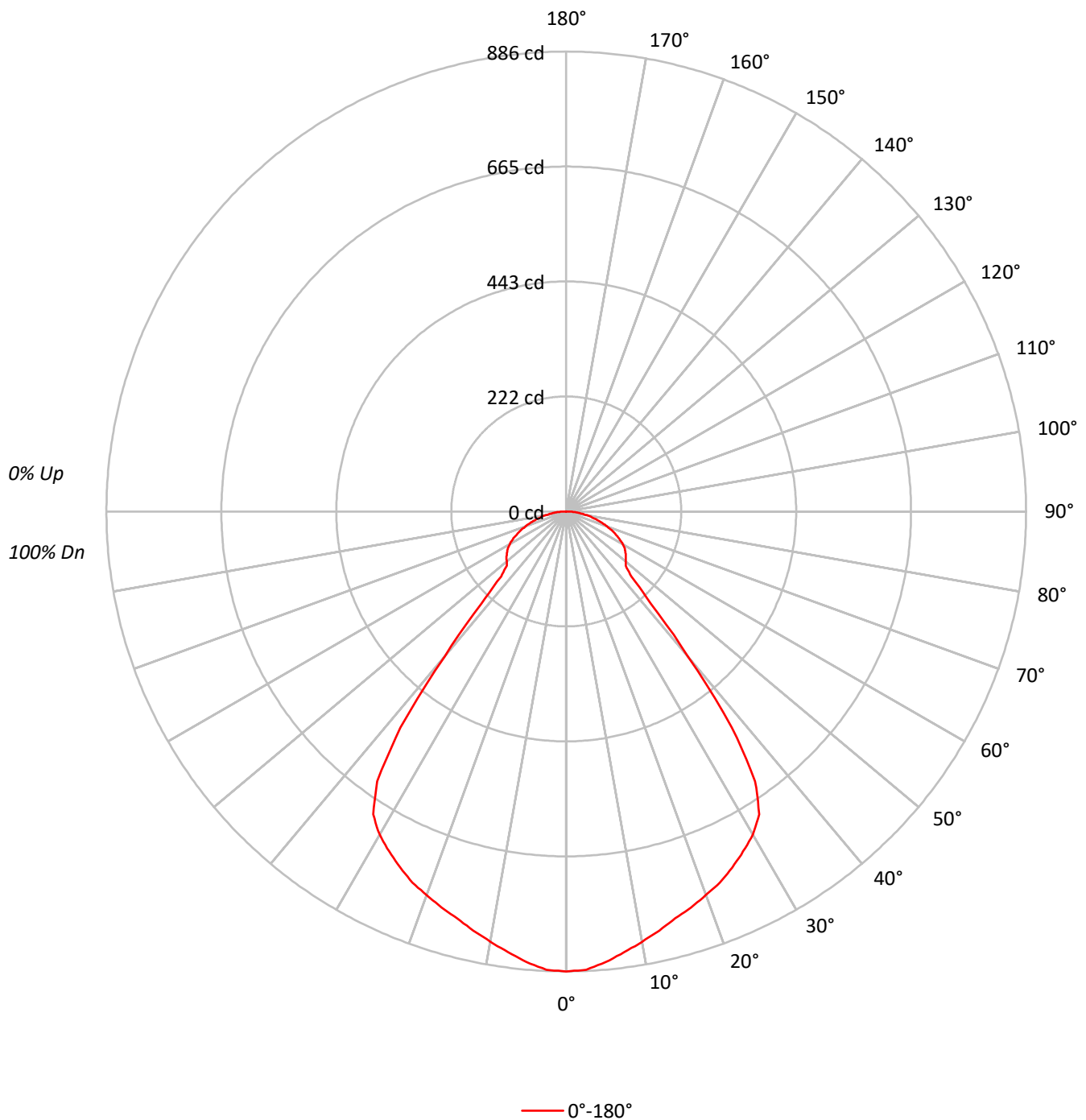
Lumens per Lamp: N/A
Luminaire Lumens: 1503.2 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	81		77
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		68
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		54
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		49
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		45
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		41
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		38
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6833
5°	6745
10°	6589
15°	6479
20°	6452
25°	6439
30°	6402
35°	5971
40°	3675
45°	1933
50°	1794
55°	1874
60°	1941
65°	1926
70°	1871
75°	1781
80°	1678
85°	1548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 1942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	5.5
10°-20°	229.7	15.3
20°-30°	348.8	23.2
30°-40°	371.6	24.7
40°-50°	158.8	10.6
50°-60°	124.5	8.3
60°-70°	104.1	6.9
70°-80°	63.4	4.2
80°-90°	20.1	1.3
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°	660.7	44.0
0°-40°	1032.3	68.7
0°-60°	1315.6	87.5
0°-90°	1503.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	886	
5°	872	82
15°	812	230
25°	757	349
35°	634	372
45°	177	159
55°	139	125
65°	106	104
75°	60	63
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	886.3
2.5°	883.5
5°	871.6
7.5°	856.4
10°	841.7
12.5°	827.0
15°	811.8
17.5°	799.9
20°	786.4
22.5°	774.0
25°	757.0
27.5°	738.4
30°	719.2
32.5°	692.1
35°	634.5
37.5°	524.4
40°	365.2
42.5°	241.0
45°	177.3
47.5°	155.2
50°	149.6
52.5°	145.1
55°	139.4
57.5°	133.8
60°	125.9
62.5°	116.3
65°	105.6
67.5°	94.3
70°	83.0
72.5°	71.1
75°	59.8
77.5°	49.1
80°	37.8
82.5°	27.7
85°	17.5
87.5°	9.6
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	12.68	14.02	13.05	14.33	14.65	12.68	14.02	13.05	14.33	14.65
	3H	14.69	15.89	15.06	16.22	16.58	14.69	15.89	15.06	16.22	16.58
	4H	15.44	16.57	15.84	16.92	17.30	15.44	16.57	15.84	16.92	17.30
	6H	16.03	17.07	16.44	17.44	17.83	16.03	17.07	16.44	17.44	17.83
	8H	16.23	17.21	16.66	17.61	18.01	16.23	17.21	16.66	17.61	18.01
	12H	16.37	17.31	16.80	17.69	18.12	16.37	17.31	16.80	17.69	18.12
4H	2H	13.35	14.48	13.75	14.83	15.21	13.35	14.48	13.75	14.83	15.21
	3H	15.55	16.49	15.96	16.89	17.30	15.55	16.49	15.96	16.89	17.30
	4H	16.43	17.28	16.87	17.70	18.14	16.43	17.28	16.87	17.70	18.14
	6H	17.15	17.88	17.61	18.33	18.79	17.15	17.88	17.61	18.33	18.79
	8H	17.40	18.09	17.87	18.53	19.00	17.40	18.09	17.87	18.53	19.00
	12H	17.59	18.19	18.07	18.68	19.15	17.59	18.19	18.07	18.68	19.15
8H	4H	16.75	17.44	17.22	17.88	18.35	16.75	17.44	17.22	17.88	18.35
	6H	17.61	18.17	18.11	18.67	19.15	17.61	18.17	18.11	18.67	19.15
	8H	17.95	18.45	18.47	18.97	19.46	17.95	18.45	18.47	18.97	19.46
	12H	18.23	18.67	18.74	19.16	19.73	18.23	18.67	18.74	19.16	19.73
12H	4H	16.78	17.39	17.27	17.87	18.34	16.78	17.39	17.27	17.87	18.34
	6H	17.67	18.18	18.19	18.69	19.18	17.67	18.18	18.19	18.69	19.18
	8H	18.08	18.52	18.59	19.01	19.58	18.08	18.52	18.59	19.01	19.58