

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: P979423

Luminaire Tested: PRLX-240-935-12L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-12L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

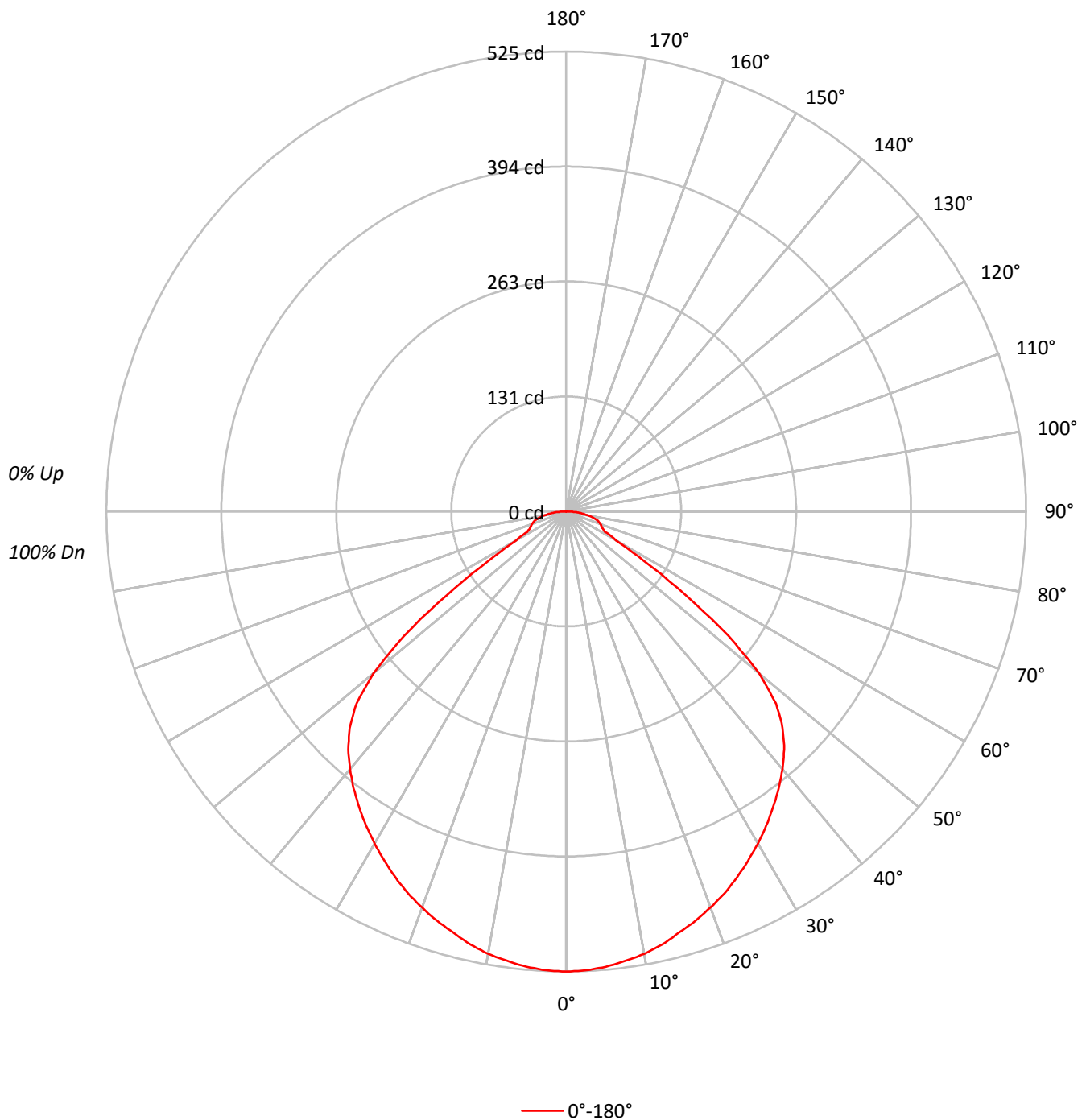
Lumens per Lamp: N/A
Luminaire Lumens: 1175.3 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5288
5°	5273
10°	5244
15°	5189
20°	5156
25°	5123
30°	5088
35°	5066
40°	5046
45°	4977
50°	4507
55°	2928
60°	1323
65°	1086
70°	1228
75°	1366
80°	1432
85°	1467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	4.2
10°-20°	140.7	12.0
20°-30°	212.5	18.1
30°-40°	257.9	21.9
40°-50°	265.9	22.6
50°-60°	150.8	12.8
60°-70°	47.7	4.1
70°-80°	36.4	3.1
80°-90°	13.9	1.2
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°	402.7	34.3
0°-40°	660.6	56.2
0°-60°	1077.4	91.7
0°-90°	1175.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	525	
5°	522	50
15°	498	141
25°	461	213
35°	412	258
45°	350	266
55°	167	151
65°	46	48
75°	35	36
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	525.2
2.5°	524.4
5°	521.7
7.5°	517.5
10°	512.9
12.5°	506.3
15°	497.8
17.5°	490.1
20°	481.2
22.5°	471.9
25°	461.1
27.5°	449.5
30°	437.6
32.5°	425.2
35°	412.1
37.5°	398.5
40°	383.9
42.5°	368.4
45°	349.5
47.5°	324.8
50°	287.7
52.5°	233.3
55°	166.8
57.5°	104.7
60°	65.7
62.5°	49.8
65°	45.6
67.5°	43.6
70°	41.7
72.5°	39.0
75°	35.1
77.5°	30.5
80°	24.7
82.5°	18.9
85°	12.7
87.5°	7.0
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	12.43	13.90	12.79	14.21	14.52	12.43	13.90	12.79	14.21	14.52
	3H	13.32	14.62	13.70	14.95	15.31	13.32	14.62	13.70	14.95	15.31
	4H	13.92	15.14	14.32	15.49	15.87	13.92	15.14	14.32	15.49	15.87
	6H	14.52	15.65	14.93	16.01	16.41	14.52	15.65	14.93	16.01	16.41
	8H	14.76	15.83	15.19	16.22	16.62	14.76	15.83	15.19	16.22	16.62
	12H	14.94	15.97	15.37	16.35	16.78	14.94	15.97	15.37	16.35	16.78
4H	2H	12.55	13.77	12.95	14.12	14.50	12.55	13.77	12.95	14.12	14.50
	3H	13.79	14.79	14.20	15.19	15.59	13.79	14.79	14.20	15.19	15.59
	4H	14.61	15.51	15.05	15.92	16.36	14.61	15.51	15.05	15.92	16.36
	6H	15.42	16.20	15.88	16.64	17.10	15.42	16.20	15.88	16.64	17.10
	8H	15.74	16.46	16.20	16.91	17.38	15.74	16.46	16.20	16.91	17.38
	12H	16.00	16.65	16.48	17.13	17.60	16.00	16.65	16.48	17.13	17.60
8H	4H	14.93	15.65	15.39	16.10	16.57	14.93	15.65	15.39	16.10	16.57
	6H	15.89	16.50	16.39	16.99	17.47	15.89	16.50	16.39	16.99	17.47
	8H	16.31	16.87	16.83	17.38	17.87	16.31	16.87	16.83	17.38	17.87
	12H	16.68	17.18	17.19	17.67	18.23	16.68	17.18	17.19	17.67	18.23
12H	4H	14.97	15.62	15.45	16.10	16.57	14.97	15.62	15.45	16.10	16.57
	6H	15.98	16.53	16.49	17.04	17.53	15.98	16.53	16.49	17.04	17.53
	8H	16.47	16.96	16.98	17.45	18.02	16.47	16.96	16.98	17.45	18.02