

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: P980063

Luminaire Tested: PRLX-242-935-12L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980063
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-242-935-12L-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

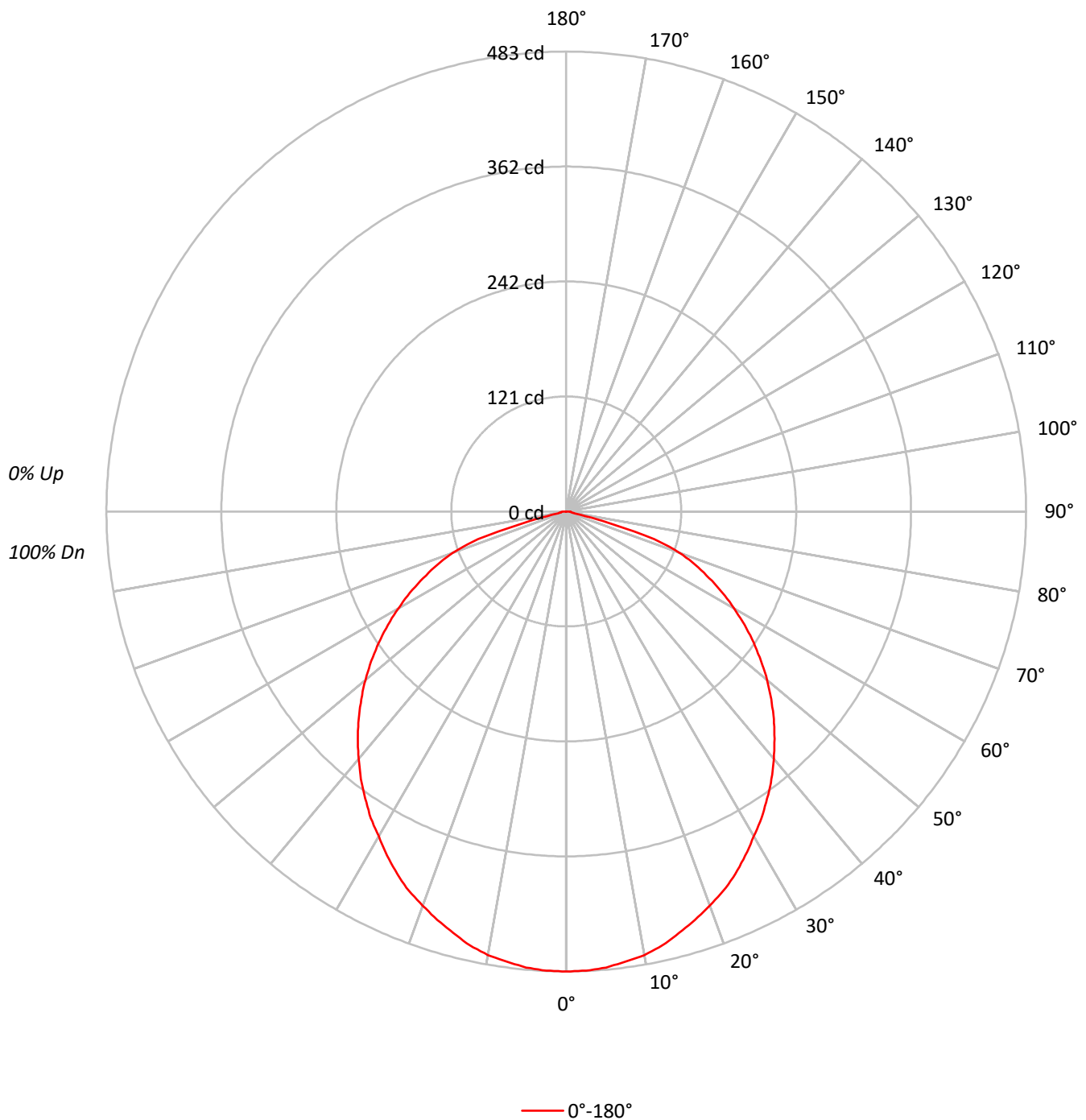
Lumens per Lamp: N/A
Luminaire Lumens: 1274.5 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P980063

CATALOG NUMBER: PRLX-242-935-12L-F-U-S-WHTE-X

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2162
5°	2160
10°	2150
15°	2124
20°	2098
25°	2075
30°	2035
35°	2010
40°	1981
45°	1951
50°	1917
55°	1874
60°	1821
65°	1755
70°	1658
75°	688
80°	149
85°	236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.6
10°-20°	129.4	10.1
20°-30°	193.3	15.2
30°-40°	230.3	18.1
40°-50°	237.7	18.7
50°-60°	214.6	16.8
60°-70°	163.9	12.9
70°-80°	55.4	4.3
80°-90°	4.2	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°	368.3	28.9
0°-40°	598.6	47.0
0°-60°	1051.0	82.5
0°-90°	1274.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1274.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	483	
5°	481	46
15°	458	129
25°	420	193
35°	368	230
45°	308	238
55°	240	215
65°	166	164
75°	40	55
85°	5	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	483.1
2.5°	482.7
5°	480.8
7.5°	476.9
10°	473.1
12.5°	466.9
15°	458.4
17.5°	449.9
20°	440.6
22.5°	431.4
25°	420.2
27.5°	407.4
30°	393.9
32.5°	381.9
35°	368.0
37.5°	354.1
40°	339.1
42.5°	324.0
45°	308.2
47.5°	292.0
50°	275.4
52.5°	258.0
55°	240.2
57.5°	222.1
60°	203.5
62.5°	185.0
65°	165.7
67.5°	146.8
70°	126.7
72.5°	96.9
75°	39.8
77.5°	8.5
80°	5.8
82.5°	5.4
85°	4.6
87.5°	2.7
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	14.54	16.14	14.90	16.45	16.77	14.54	16.14	14.90	16.45	16.77
	3H	16.36	17.81	16.74	18.13	18.49	16.36	17.81	16.74	18.13	18.49
	4H	16.59	17.95	16.99	18.30	18.67	16.59	17.95	16.99	18.30	18.67
	6H	16.54	17.80	16.96	18.16	18.55	16.54	17.80	16.96	18.16	18.55
	8H	16.52	17.71	16.94	18.10	18.50	16.52	17.71	16.94	18.10	18.50
	12H	16.49	17.63	16.92	18.02	18.44	16.49	17.63	16.92	18.02	18.44
4H	2H	15.19	16.54	15.58	16.89	17.26	15.19	16.54	15.58	16.89	17.26
	3H	17.19	18.32	17.60	18.71	19.11	17.19	18.32	17.60	18.71	19.11
	4H	17.41	18.42	17.84	18.83	19.27	17.41	18.42	17.84	18.83	19.27
	6H	17.37	18.24	17.83	18.69	19.14	17.37	18.24	17.83	18.69	19.14
	8H	17.34	18.15	17.80	18.60	19.06	17.34	18.15	17.80	18.60	19.06
	12H	17.32	18.05	17.80	18.53	19.00	17.32	18.05	17.80	18.53	19.00
8H	4H	17.46	18.28	17.92	18.72	19.19	17.46	18.28	17.92	18.72	19.19
	6H	17.41	18.08	17.90	18.57	19.04	17.41	18.08	17.90	18.57	19.04
	8H	17.38	17.97	17.89	18.48	18.97	17.38	17.97	17.89	18.48	18.97
	12H	17.37	17.89	17.88	18.38	18.95	17.37	17.89	17.88	18.38	18.95
12H	4H	17.44	18.17	17.92	18.64	19.11	17.44	18.17	17.92	18.64	19.11
	6H	17.37	17.97	17.88	18.47	18.96	17.37	17.97	17.88	18.47	18.96
	8H	17.36	17.88	17.87	18.37	18.94	17.36	17.88	17.87	18.37	18.94