

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: P980133

Luminaire Tested: PRLX-242-935-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980133
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-242-935-74L-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

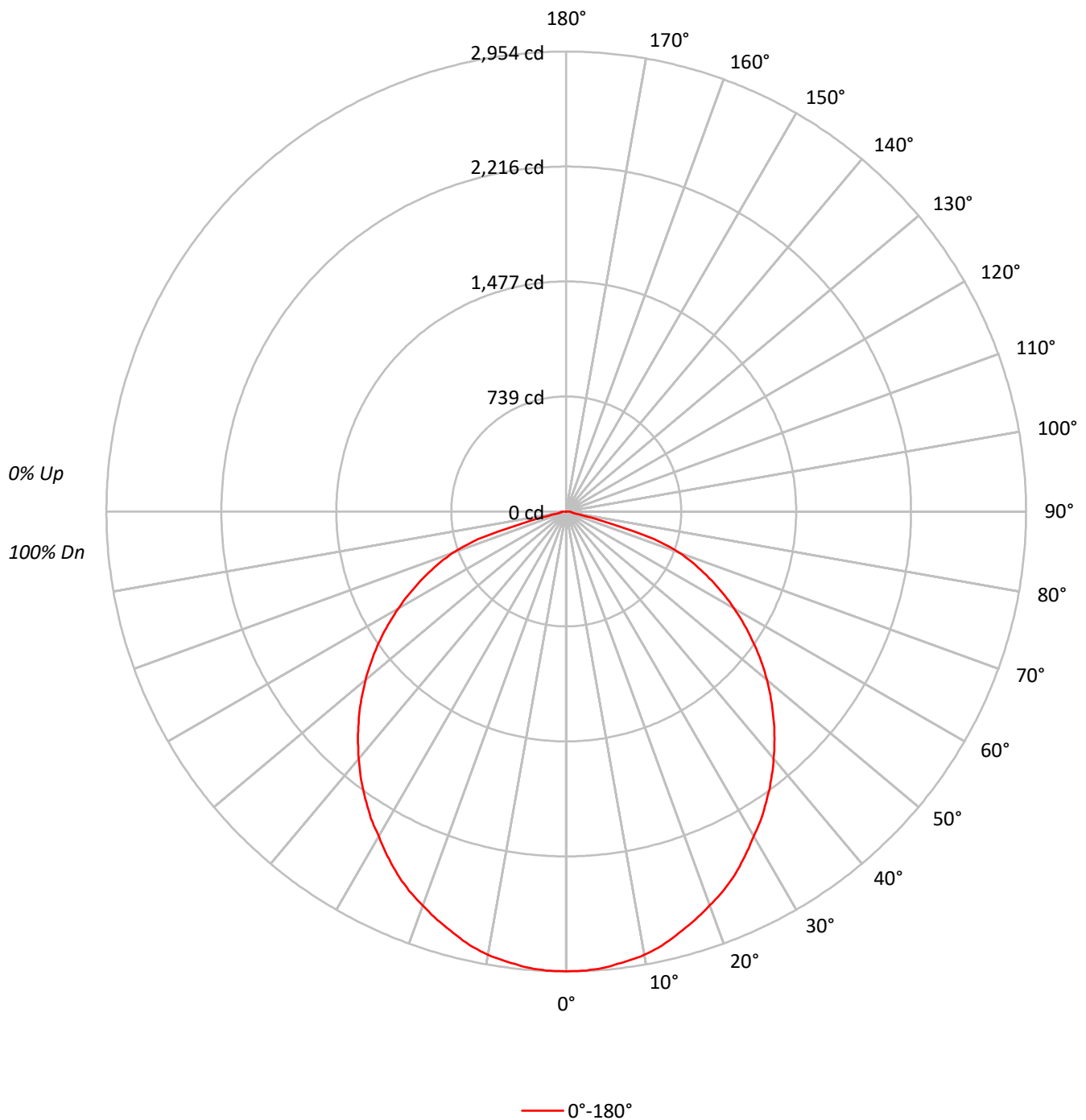
Lumens per Lamp: N/A
Luminaire Lumens: 7792.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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: P980133

CATALOG NUMBER: PRLX-242-935-74L-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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		86
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		72
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		40
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13219
5°	13206
10°	13144
15°	12985
20°	12831
25°	12686
30°	12446
35°	12294
40°	12111
45°	11925
50°	11721
55°	11459
60°	11138
65°	10727
70°	10134
75°	4205
80°	912
85°	1453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	3.6
10°-20°	790.9	10.1
20°-30°	1182.1	15.2
30°-40°	1408.0	18.1
40°-50°	1453.6	18.7
50°-60°	1312.3	16.8
60°-70°	1002.3	12.9
70°-80°	338.5	4.3
80°-90°	26.0	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°	2252.0	28.9
0°-40°	3660.0	47.0
0°-60°	6425.9	82.5
0°-90°	7792.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7792.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2954	
5°	2940	279
15°	2803	791
25°	2569	1182
35°	2250	1408
45°	1884	1454
55°	1469	1312
65°	1013	1002
75°	243	338
85°	28	26
90°	0	

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CATALOG NUMBER: PRLX-242-935-74L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2954.0
2.5°	2951.6
5°	2939.8
7.5°	2916.2
10°	2892.6
12.5°	2854.8
15°	2802.8
17.5°	2750.9
20°	2694.2
22.5°	2637.6
25°	2569.1
27.5°	2491.2
30°	2408.5
32.5°	2335.3
35°	2250.3
37.5°	2165.3
40°	2073.2
42.5°	1981.1
45°	1884.3
47.5°	1785.1
50°	1683.6
52.5°	1577.3
55°	1468.7
57.5°	1357.7
60°	1244.4
62.5°	1131.1
65°	1013.0
67.5°	897.3
70°	774.5
72.5°	592.7
75°	243.2
77.5°	51.9
80°	35.4
82.5°	33.1
85°	28.3
87.5°	16.5
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	20.83	22.43	21.19	22.74	23.06	20.83	22.43	21.19	22.74	23.06
	3H	22.65	24.10	23.03	24.42	24.78	22.65	24.10	23.03	24.42	24.78
	4H	22.88	24.24	23.28	24.59	24.96	22.88	24.24	23.28	24.59	24.96
	6H	22.83	24.08	23.24	24.45	24.84	22.83	24.08	23.24	24.45	24.84
	8H	22.80	24.00	23.23	24.39	24.79	22.80	24.00	23.23	24.39	24.79
	12H	22.78	23.92	23.21	24.31	24.73	22.78	23.92	23.21	24.31	24.73
4H	2H	21.48	22.83	21.87	23.18	23.55	21.48	22.83	21.87	23.18	23.55
	3H	23.48	24.60	23.89	25.00	25.40	23.48	24.60	23.89	25.00	25.40
	4H	23.70	24.71	24.13	25.12	25.56	23.70	24.71	24.13	25.12	25.56
	6H	23.66	24.53	24.11	24.98	25.43	23.66	24.53	24.11	24.98	25.43
	8H	23.63	24.44	24.09	24.89	25.35	23.63	24.44	24.09	24.89	25.35
	12H	23.61	24.34	24.09	24.82	25.29	23.61	24.34	24.09	24.82	25.29
8H	4H	23.75	24.57	24.21	25.01	25.48	23.75	24.57	24.21	25.01	25.48
	6H	23.70	24.37	24.19	24.86	25.33	23.70	24.37	24.19	24.86	25.33
	8H	23.67	24.26	24.18	24.77	25.26	23.67	24.26	24.18	24.77	25.26
	12H	23.66	24.18	24.17	24.67	25.24	23.66	24.18	24.17	24.67	25.24
12H	4H	23.73	24.46	24.21	24.93	25.40	23.73	24.46	24.21	24.93	25.40
	6H	23.66	24.25	24.17	24.76	25.25	23.66	24.25	24.17	24.76	25.25
	8H	23.65	24.17	24.16	24.66	25.23	23.65	24.17	24.16	24.66	25.23