

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: P980113

Luminaire Tested: PRLX-242-935-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980113
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-242-935-48L-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

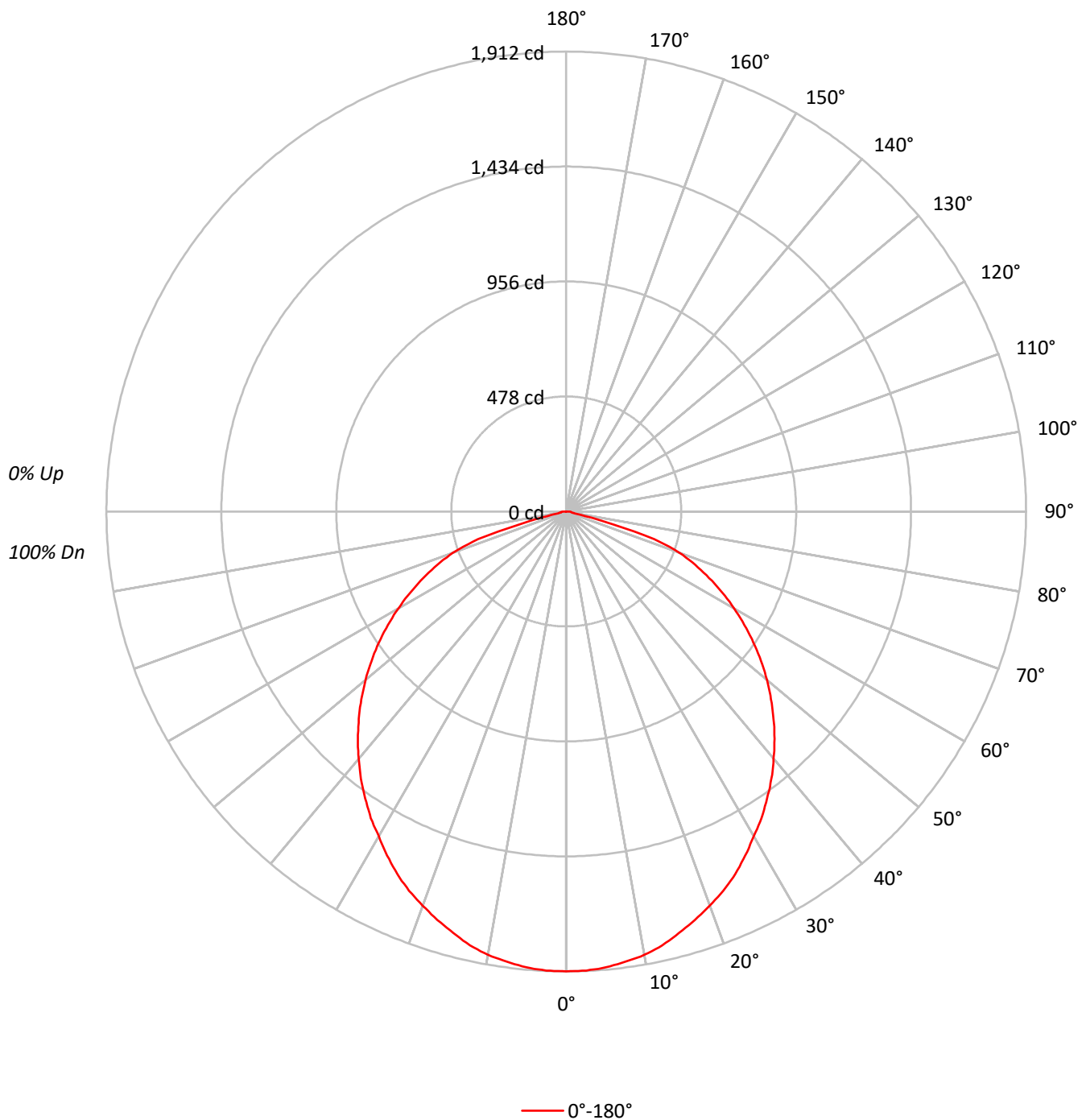
Lumens per Lamp: N/A
Luminaire Lumens: 5044.1 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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: P980113

CATALOG NUMBER: PRLX-242-935-48L-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°	8557
5°	8548
10°	8508
15°	8406
20°	8305
25°	8211
30°	8056
35°	7958
40°	7840
45°	7719
50°	7587
55°	7417
60°	7209
65°	6943
70°	6559
75°	2722
80°	590
85°	940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.6
10°-20°	512.0	10.1
20°-30°	765.2	15.2
30°-40°	911.4	18.1
40°-50°	940.9	18.7
50°-60°	849.5	16.8
60°-70°	648.7	12.9
70°-80°	219.1	4.3
80°-90°	16.8	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°	1457.7	28.9
0°-40°	2369.1	47.0
0°-60°	4159.5	82.5
0°-90°	5044.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1912	
5°	1903	181
15°	1814	512
25°	1663	765
35°	1457	911
45°	1220	941
55°	951	849
65°	656	649
75°	157	219
85°	18	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1912.1
2.5°	1910.5
5°	1902.9
7.5°	1887.6
10°	1872.3
12.5°	1847.9
15°	1814.3
17.5°	1780.6
20°	1743.9
22.5°	1707.3
25°	1662.9
27.5°	1612.5
30°	1559.0
32.5°	1511.6
35°	1456.6
37.5°	1401.6
40°	1342.0
42.5°	1282.4
45°	1219.7
47.5°	1155.5
50°	1089.8
52.5°	1021.0
55°	950.7
57.5°	878.9
60°	805.5
62.5°	732.1
65°	655.7
67.5°	580.8
70°	501.3
72.5°	383.6
75°	157.4
77.5°	33.6
80°	22.9
82.5°	21.4
85°	18.3
87.5°	10.7
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	19.31	20.92	19.68	21.23	21.55	19.31	20.92	19.68	21.23	21.55
	3H	21.14	22.58	21.52	22.91	23.27	21.14	22.58	21.52	22.91	23.27
	4H	21.37	22.73	21.77	23.08	23.45	21.37	22.73	21.77	23.08	23.45
	6H	21.32	22.57	21.73	22.94	23.33	21.32	22.57	21.73	22.94	23.33
	8H	21.29	22.49	21.72	22.88	23.27	21.29	22.49	21.72	22.88	23.27
	12H	21.27	22.41	21.70	22.79	23.22	21.27	22.41	21.70	22.79	23.22
4H	2H	19.96	21.32	20.36	21.67	22.04	19.96	21.32	20.36	21.67	22.04
	3H	21.97	23.09	22.38	23.49	23.89	21.97	23.09	22.38	23.49	23.89
	4H	22.19	23.20	22.62	23.61	24.05	22.19	23.20	22.62	23.61	24.05
	6H	22.15	23.02	22.60	23.46	23.92	22.15	23.02	22.60	23.46	23.92
	8H	22.12	22.93	22.58	23.38	23.84	22.12	22.93	22.58	23.38	23.84
	12H	22.10	22.83	22.58	23.31	23.78	22.10	22.83	22.58	23.31	23.78
8H	4H	22.24	23.06	22.70	23.50	23.97	22.24	23.06	22.70	23.50	23.97
	6H	22.19	22.86	22.68	23.35	23.82	22.19	22.86	22.68	23.35	23.82
	8H	22.16	22.75	22.67	23.26	23.75	22.16	22.75	22.67	23.26	23.75
	12H	22.15	22.67	22.65	23.16	23.72	22.15	22.67	22.65	23.16	23.72
12H	4H	22.22	22.94	22.70	23.42	23.89	22.22	22.94	22.70	23.42	23.89
	6H	22.15	22.74	22.66	23.25	23.74	22.15	22.74	22.66	23.25	23.74
	8H	22.14	22.66	22.64	23.15	23.71	22.14	22.66	22.64	23.15	23.71