

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: P980111

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-48L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

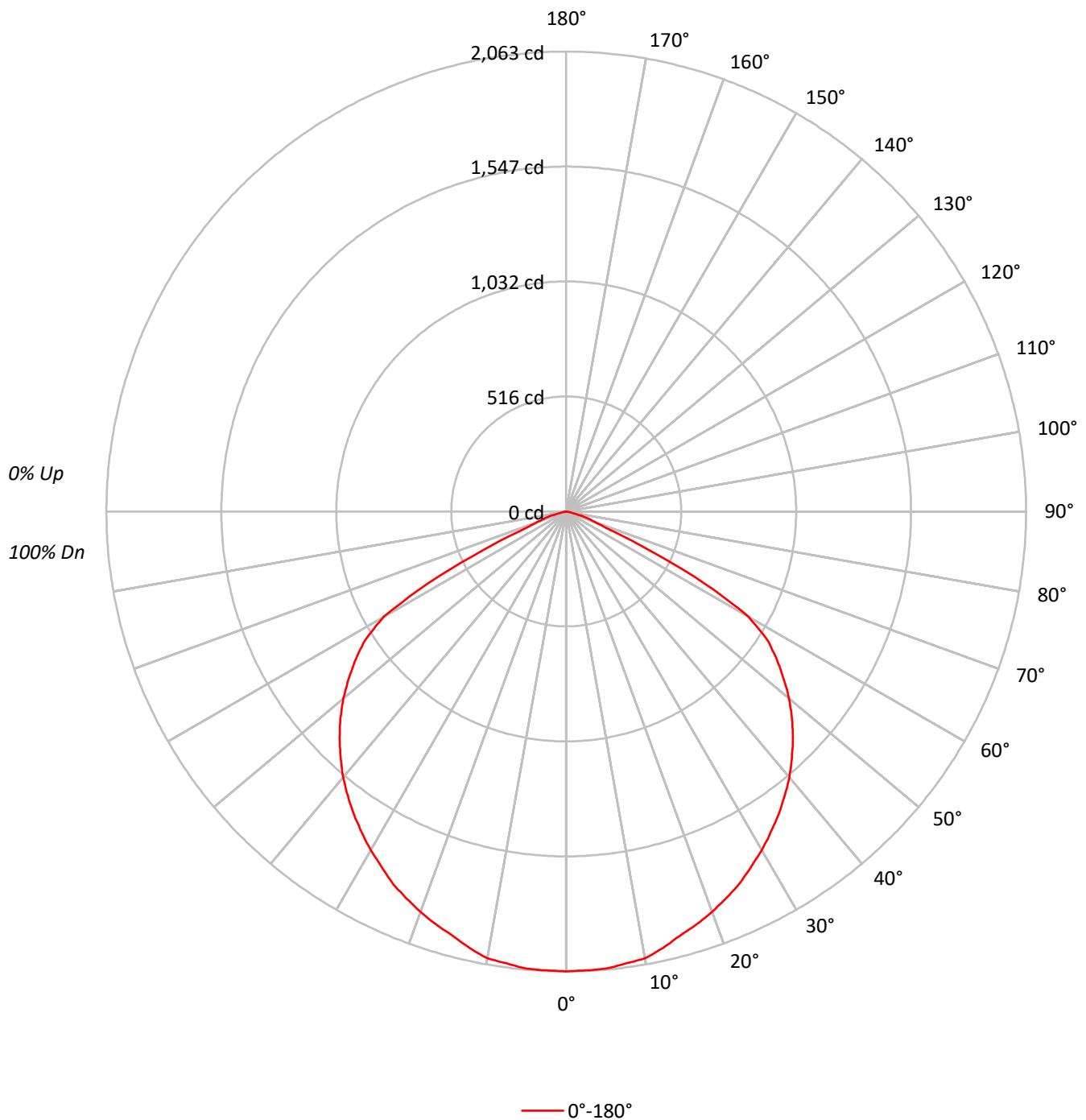
Lumens per Lamp: N/A
Luminaire Lumens: 5287.1 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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: P980111

CATALOG NUMBER: PRLX-242-935-48L-C-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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9234
5°	9249
10°	9251
15°	9128
20°	9106
25°	9094
30°	9067
35°	9068
40°	9099
45°	9103
50°	9088
55°	8979
60°	8440
65°	4321
70°	1740
75°	820
80°	157
85°	236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.7
10°-20°	557.5	10.5
20°-30°	848.1	16.0
30°-40°	1039.3	19.7
40°-50°	1109.0	21.0
50°-60°	1022.6	19.3
60°-70°	450.2	8.5
70°-80°	60.3	1.1
80°-90°	4.6	0.1
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°	1601.2	30.3
0°-40°	2640.4	49.9
0°-60°	4772.0	90.3
0°-90°	5287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5287.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2063	
5°	2059	196
15°	1970	557
25°	1842	848
35°	1660	1039
45°	1438	1109
55°	1151	1023
65°	408	450
75°	47	60
85°	5	5
90°	0	

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CATALOG NUMBER: PRLX-242-935-48L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2063.4
2.5°	2060.3
5°	2058.8
7.5°	2045.0
10°	2035.9
12.5°	2005.3
15°	1970.2
17.5°	1942.6
20°	1912.1
22.5°	1876.9
25°	1841.8
27.5°	1795.9
30°	1754.6
32.5°	1707.3
35°	1659.9
37.5°	1609.4
40°	1557.5
42.5°	1497.9
45°	1438.3
47.5°	1374.1
50°	1305.3
52.5°	1228.9
55°	1150.9
57.5°	1068.4
60°	943.0
62.5°	701.6
65°	408.1
67.5°	189.5
70°	133.0
72.5°	99.3
75°	47.4
77.5°	13.8
80°	6.1
82.5°	6.1
85°	4.6
87.5°	3.1
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	20.56	22.11	20.93	22.42	22.74	20.56	22.11	20.93	22.42	22.74
	3H	20.61	21.98	20.99	22.31	22.67	20.61	21.98	20.99	22.31	22.67
	4H	20.57	21.86	20.97	22.21	22.59	20.57	21.86	20.97	22.21	22.59
	6H	20.51	21.70	20.93	22.06	22.45	20.51	21.70	20.93	22.06	22.45
	8H	20.48	21.60	20.91	21.99	22.39	20.48	21.60	20.91	21.99	22.39
	12H	20.45	21.52	20.88	21.91	22.33	20.45	21.52	20.88	21.91	22.33
4H	2H	20.66	21.94	21.06	22.29	22.67	20.66	21.94	21.06	22.29	22.67
	3H	20.75	21.79	21.16	22.19	22.60	20.75	21.79	21.16	22.19	22.60
	4H	20.71	21.64	21.14	22.06	22.50	20.71	21.64	21.14	22.06	22.50
	6H	20.65	21.46	21.11	21.90	22.36	20.65	21.46	21.11	21.90	22.36
	8H	20.61	21.36	21.07	21.81	22.27	20.61	21.36	21.07	21.81	22.27
	12H	20.58	21.25	21.06	21.72	22.20	20.58	21.25	21.06	21.72	22.20
8H	4H	20.62	21.37	21.09	21.82	22.29	20.62	21.37	21.09	21.82	22.29
	6H	20.54	21.16	21.04	21.65	22.13	20.54	21.16	21.04	21.65	22.13
	8H	20.49	21.05	21.01	21.56	22.05	20.49	21.05	21.01	21.56	22.05
	12H	20.46	20.95	20.97	21.44	22.01	20.46	20.95	20.97	21.44	22.01
12H	4H	20.59	21.26	21.07	21.74	22.21	20.59	21.26	21.07	21.74	22.21
	6H	20.49	21.04	21.00	21.55	22.04	20.49	21.04	21.00	21.55	22.04
	8H	20.45	20.95	20.97	21.44	22.01	20.45	20.95	20.97	21.44	22.01

END OF REPORT