

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: P980071

Luminaire Tested: PRLX-242-935-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980071
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-242-935-18L-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

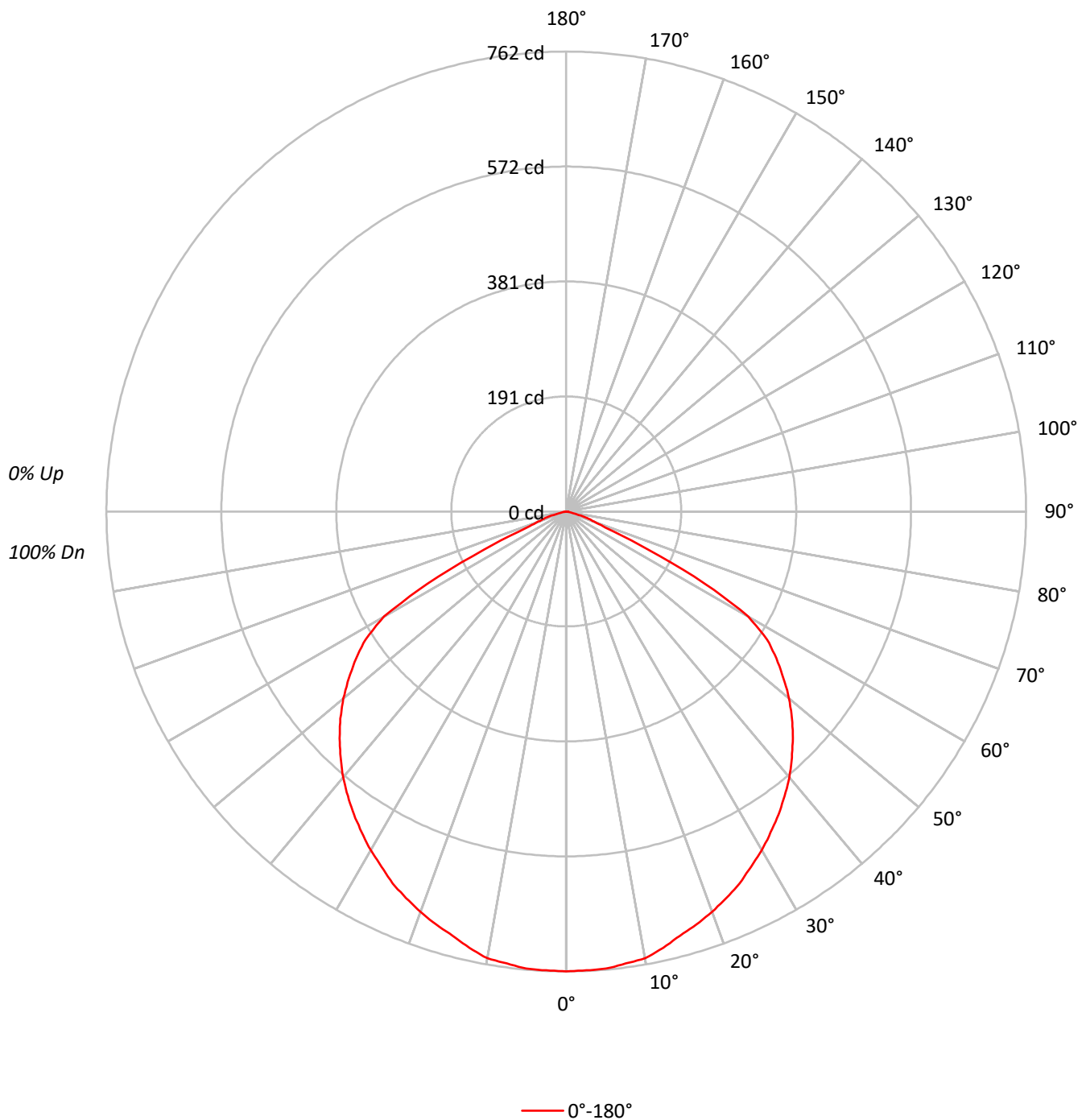
Lumens per Lamp: N/A
Luminaire Lumens: 1952.7 lumens
Efficiency: N/A
Efficacy: 177.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	3410
5°	3416
10°	3417
15°	3371
20°	3363
25°	3359
30°	3349
35°	3349
40°	3360
45°	3362
50°	3356
55°	3317
60°	3117
65°	1596
70°	642
75°	303
80°	59
85°	87

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.7
10°-20°	205.9	10.5
20°-30°	313.2	16.0
30°-40°	383.8	19.7
40°-50°	409.6	21.0
50°-60°	377.7	19.3
60°-70°	166.3	8.5
70°-80°	22.3	1.1
80°-90°	1.7	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°	591.4	30.3
0°-40°	975.2	49.9
0°-60°	1762.5	90.3
0°-90°	1952.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	762	
5°	760	72
15°	728	206
25°	680	313
35°	613	384
45°	531	410
55°	425	378
65°	151	166
75°	18	22
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	762.1
2.5°	761.0
5°	760.4
7.5°	755.3
10°	751.9
12.5°	740.6
15°	727.7
17.5°	717.5
20°	706.2
22.5°	693.2
25°	680.2
27.5°	663.3
30°	648.1
32.5°	630.6
35°	613.1
37.5°	594.4
40°	575.2
42.5°	553.2
45°	531.2
47.5°	507.5
50°	482.1
52.5°	453.9
55°	425.1
57.5°	394.6
60°	348.3
62.5°	259.1
65°	150.7
67.5°	70.0
70°	49.1
72.5°	36.7
75°	17.5
77.5°	5.1
80°	2.3
82.5°	2.3
85°	1.7
87.5°	1.1
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	17.10	18.65	17.47	18.96	19.28	17.10	18.65	17.47	18.96	19.28
	3H	17.15	18.52	17.53	18.85	19.21	17.15	18.52	17.53	18.85	19.21
	4H	17.11	18.40	17.51	18.75	19.13	17.11	18.40	17.51	18.75	19.13
	6H	17.05	18.24	17.47	18.60	18.99	17.05	18.24	17.47	18.60	18.99
	8H	17.02	18.14	17.45	18.53	18.93	17.02	18.14	17.45	18.53	18.93
	12H	16.99	18.06	17.42	18.44	18.87	16.99	18.06	17.42	18.44	18.87
4H	2H	17.20	18.48	17.60	18.83	19.21	17.20	18.48	17.60	18.83	19.21
	3H	17.29	18.33	17.70	18.73	19.13	17.29	18.33	17.70	18.73	19.13
	4H	17.25	18.18	17.68	18.60	19.04	17.25	18.18	17.68	18.60	19.04
	6H	17.19	18.00	17.65	18.44	18.90	17.19	18.00	17.65	18.44	18.90
	8H	17.15	17.90	17.61	18.34	18.81	17.15	17.90	17.61	18.34	18.81
	12H	17.12	17.78	17.60	18.26	18.74	17.12	17.78	17.60	18.26	18.74
8H	4H	17.16	17.91	17.63	18.36	18.83	17.16	17.91	17.63	18.36	18.83
	6H	17.08	17.70	17.58	18.19	18.67	17.08	17.70	17.58	18.19	18.67
	8H	17.03	17.58	17.55	18.10	18.58	17.03	17.58	17.55	18.10	18.58
	12H	17.00	17.49	17.51	17.98	18.55	17.00	17.49	17.51	17.98	18.55
12H	4H	17.13	17.80	17.61	18.28	18.75	17.13	17.80	17.61	18.28	18.75
	6H	17.03	17.58	17.54	18.09	18.58	17.03	17.58	17.54	18.09	18.58
	8H	16.99	17.49	17.50	17.98	18.55	16.99	17.49	17.50	17.98	18.55

END OF REPORT