

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: P980080

Luminaire Tested: PRLX-242-935-23L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-23L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

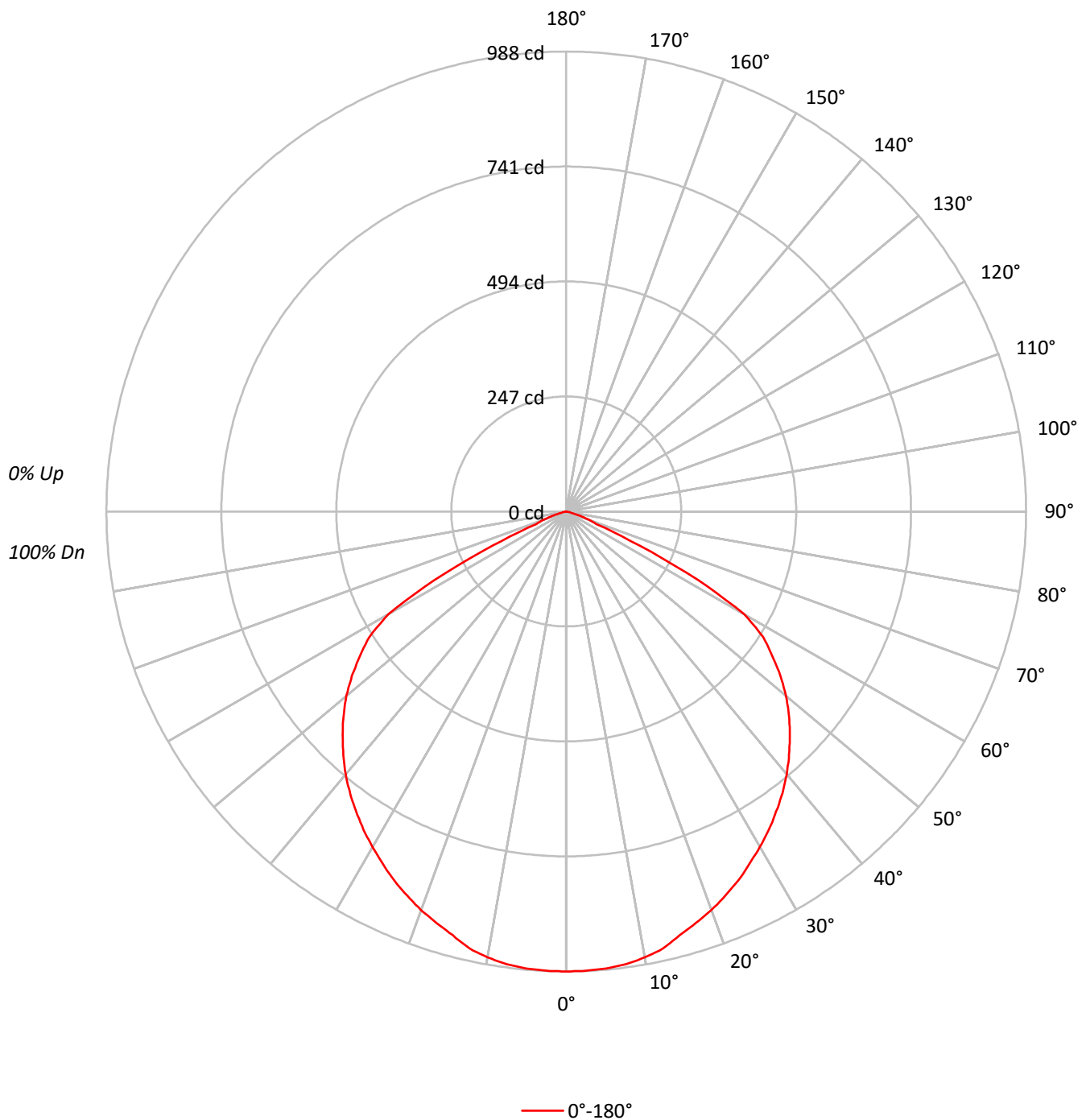
Lumens per Lamp: N/A
Luminaire Lumens: 2476.6 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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	105	102	99	101	98	96	97	95	93	93	92	90
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4423
5°	4426
10°	4420
15°	4366
20°	4339
25°	4320
30°	4299
35°	4298
40°	4306
45°	4300
50°	4291
55°	4219
60°	3952
65°	1844
70°	620
75°	192
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.8
10°-20°	266.4	10.8
20°-30°	403.2	16.3
30°-40°	492.8	19.9
40°-50°	524.2	21.2
50°-60°	481.1	19.4
60°-70°	197.4	8.0
70°-80°	17.8	0.7
80°-90°	0.0	0.0
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°	763.3	30.8
0°-40°	1256.0	50.7
0°-60°	2261.4	91.3
0°-90°	2476.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	988	
5°	985	94
15°	942	266
25°	875	403
35°	787	493
45°	679	524
55°	541	481
65°	174	197
75°	11	18
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	988.3
2.5°	987.6
5°	985.3
7.5°	980.9
10°	972.7
12.5°	961.6
15°	942.4
17.5°	926.8
20°	911.2
22.5°	893.5
25°	874.9
27.5°	853.5
30°	832.0
32.5°	810.5
35°	786.8
37.5°	763.1
40°	737.1
42.5°	709.0
45°	679.4
47.5°	649.0
50°	616.4
52.5°	580.1
55°	540.8
57.5°	501.6
60°	441.5
62.5°	318.6
65°	174.1
67.5°	69.6
70°	47.4
72.5°	32.6
75°	11.1
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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	17.96	19.49	18.32	19.81	20.12	17.96	19.49	18.32	19.81	20.12
	3H	17.94	19.30	18.32	19.63	19.99	17.94	19.30	18.32	19.63	19.99
	4H	17.89	19.16	18.29	19.51	19.89	17.89	19.16	18.29	19.51	19.89
	6H	17.83	19.00	18.24	19.36	19.76	17.83	19.00	18.24	19.36	19.76
	8H	17.79	18.90	18.22	19.29	19.69	17.79	18.90	18.22	19.29	19.69
	12H	17.76	18.82	18.19	19.20	19.63	17.76	18.82	18.19	19.20	19.63
4H	2H	18.01	19.28	18.41	19.63	20.01	18.01	19.28	18.41	19.63	20.01
	3H	18.02	19.06	18.44	19.46	19.86	18.02	19.06	18.44	19.46	19.86
	4H	17.97	18.89	18.40	19.30	19.74	17.97	18.89	18.40	19.30	19.74
	6H	17.90	18.70	18.36	19.14	19.60	17.90	18.70	18.36	19.14	19.60
	8H	17.86	18.60	18.32	19.04	19.51	17.86	18.60	18.32	19.04	19.51
	12H	17.82	18.48	18.31	18.96	19.43	17.82	18.48	18.31	18.96	19.43
8H	4H	17.87	18.61	18.33	19.05	19.52	17.87	18.61	18.33	19.05	19.52
	6H	17.78	18.39	18.28	18.88	19.36	17.78	18.39	18.28	18.88	19.36
	8H	17.73	18.27	18.24	18.78	19.27	17.73	18.27	18.24	18.78	19.27
	12H	17.69	18.17	18.20	18.67	19.23	17.69	18.17	18.20	18.67	19.23
12H	4H	17.83	18.49	18.31	18.97	19.44	17.83	18.49	18.31	18.97	19.44
	6H	17.73	18.27	18.24	18.78	19.27	17.73	18.27	18.24	18.78	19.27
	8H	17.69	18.17	18.20	18.67	19.23	17.69	18.17	18.20	18.67	19.23