

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979981

Luminaire Tested: PRLX-242-930-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979981
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-242-930-LL1-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1293.0 lumens
Efficiency: N/A
Efficacy: 172.4 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

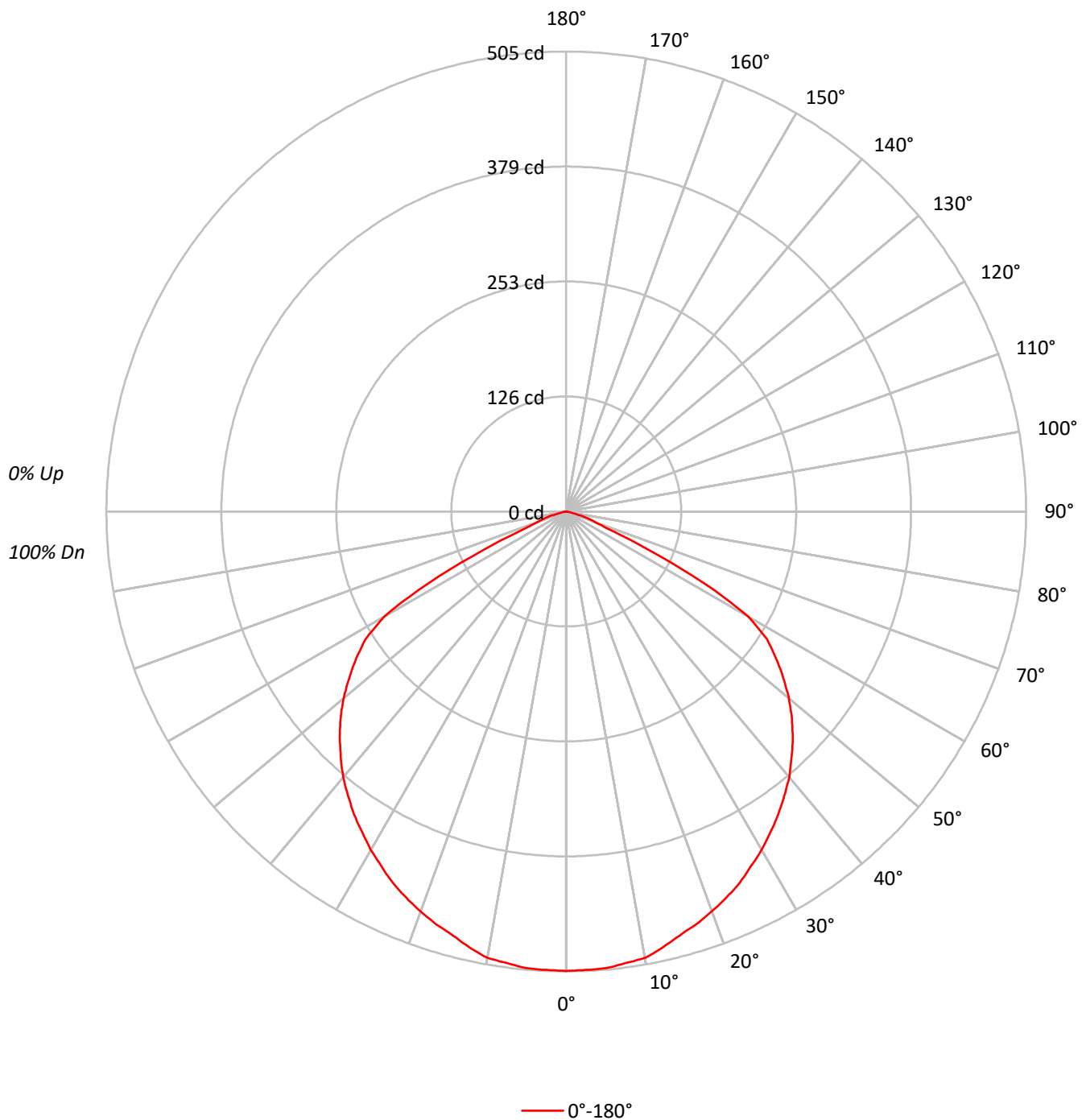
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2258
5°	2262
10°	2263
15°	2232
20°	2227
25°	2224
30°	2217
35°	2218
40°	2225
45°	2226
50°	2222
55°	2196
60°	2064
65°	1057
70°	425
75°	201
80°	39
85°	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.7
10°-20°	136.3	10.5
20°-30°	207.4	16.0
30°-40°	254.2	19.7
40°-50°	271.2	21.0
50°-60°	250.1	19.3
60°-70°	110.1	8.5
70°-80°	14.8	1.1
80°-90°	1.1	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°	391.6	30.3
0°-40°	645.7	49.9
0°-60°	1167.1	90.3
0°-90°	1293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	505	
5°	504	48
15°	482	136
25°	450	207
35°	406	254
45°	352	271
55°	282	250
65°	100	110
75°	12	15
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	504.6
2.5°	503.9
5°	503.5
7.5°	500.2
10°	497.9
12.5°	490.4
15°	481.8
17.5°	475.1
20°	467.6
22.5°	459.0
25°	450.4
27.5°	439.2
30°	429.1
32.5°	417.5
35°	406.0
37.5°	393.6
40°	380.9
42.5°	366.3
45°	351.8
47.5°	336.1
50°	319.2
52.5°	300.5
55°	281.5
57.5°	261.3
60°	230.6
62.5°	171.6
65°	99.8
67.5°	46.4
70°	32.5
72.5°	24.3
75°	11.6
77.5°	3.4
80°	1.5
82.5°	1.5
85°	1.1
87.5°	0.7
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	15.67	17.22	16.03	17.53	17.85	15.67	17.22	16.03	17.53	17.85
	3H	15.72	17.09	16.09	17.42	17.78	15.72	17.09	16.09	17.42	17.78
	4H	15.68	16.97	16.08	17.32	17.69	15.68	16.97	16.08	17.32	17.69
	6H	15.62	16.80	16.03	17.17	17.56	15.62	16.80	16.03	17.17	17.56
	8H	15.59	16.71	16.01	17.10	17.50	15.59	16.71	16.01	17.10	17.50
	12H	15.56	16.63	15.99	17.01	17.44	15.56	16.63	15.99	17.01	17.44
4H	2H	15.76	17.05	16.16	17.40	17.78	15.76	17.05	16.16	17.40	17.78
	3H	15.85	16.90	16.26	17.30	17.70	15.85	16.90	16.26	17.30	17.70
	4H	15.82	16.75	16.25	17.17	17.61	15.82	16.75	16.25	17.17	17.61
	6H	15.76	16.57	16.22	17.01	17.47	15.76	16.57	16.22	17.01	17.47
	8H	15.72	16.47	16.18	16.91	17.38	15.72	16.47	16.18	16.91	17.38
	12H	15.68	16.35	16.17	16.83	17.30	15.68	16.35	16.17	16.83	17.30
8H	4H	15.73	16.48	16.19	16.93	17.39	15.73	16.48	16.19	16.93	17.39
	6H	15.65	16.27	16.15	16.76	17.24	15.65	16.27	16.15	16.76	17.24
	8H	15.60	16.15	16.11	16.66	17.15	15.60	16.15	16.11	16.66	17.15
	12H	15.56	16.06	16.07	16.55	17.11	15.56	16.06	16.07	16.55	17.11
12H	4H	15.70	16.37	16.18	16.85	17.32	15.70	16.37	16.18	16.85	17.32
	6H	15.60	16.15	16.11	16.66	17.15	15.60	16.15	16.11	16.66	17.15
	8H	15.56	16.05	16.07	16.55	17.11	15.56	16.05	16.07	16.55	17.11

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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