

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: P979483

Luminaire Tested: PRLX-240-935-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6058.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

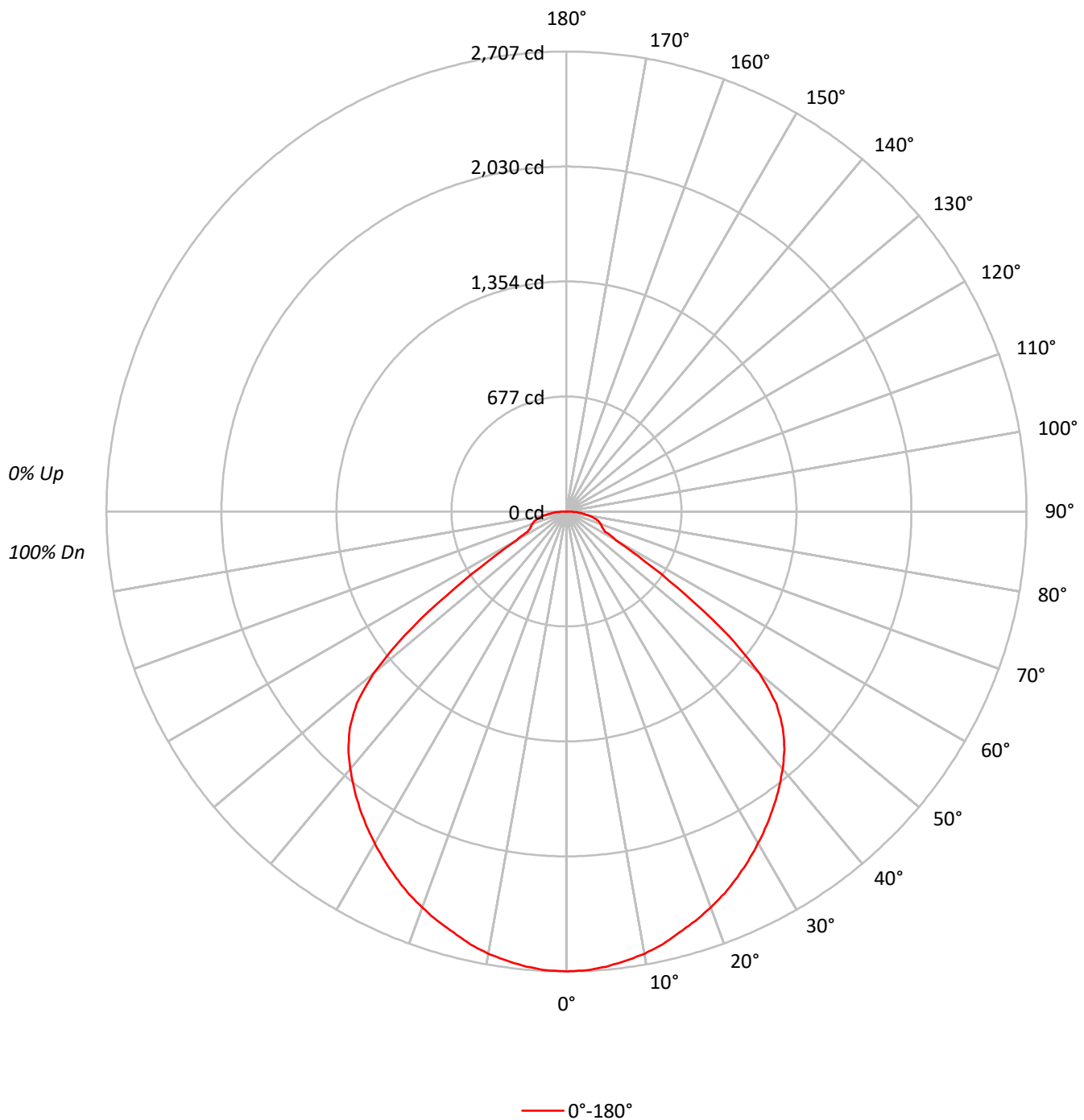
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		88
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		76
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		66
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		58
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		51
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		46
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		41
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		37
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		33
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27261
5°	27183
10°	27029
15°	26748
20°	26578
25°	26407
30°	26224
35°	26109
40°	26010
45°	25654
50°	23232
55°	15097
60°	6815
65°	5597
70°	6330
75°	7049
80°	7387
85°	7590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	4.2
10°-20°	725.0	12.0
20°-30°	1095.6	18.1
30°-40°	1329.6	21.9
40°-50°	1370.7	22.6
50°-60°	777.4	12.8
60°-70°	245.9	4.1
70°-80°	187.7	3.1
80°-90°	71.5	1.2
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°	2075.8	34.3
0°-40°	3405.4	56.2
0°-60°	5553.5	91.7
0°-90°	6058.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6058.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2707	
5°	2689	255
15°	2566	725
25°	2377	1096
35°	2124	1330
45°	1802	1371
55°	860	777
65°	235	246
75°	181	188
85°	66	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2707.4
2.5°	2703.4
5°	2689.4
7.5°	2667.5
10°	2643.6
12.5°	2609.8
15°	2566.0
17.5°	2526.2
20°	2480.4
22.5°	2432.6
25°	2376.9
27.5°	2317.2
30°	2255.5
32.5°	2191.8
35°	2124.1
37.5°	2054.4
40°	1978.8
42.5°	1899.1
45°	1801.6
47.5°	1674.2
50°	1483.1
52.5°	1202.4
55°	860.0
57.5°	539.5
60°	338.4
62.5°	256.8
65°	234.9
67.5°	224.9
70°	215.0
72.5°	201.1
75°	181.2
77.5°	157.3
80°	127.4
82.5°	97.5
85°	65.7
87.5°	35.8
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	18.12	19.59	18.49	19.91	20.22	18.12	19.59	18.49	19.91	20.22
	3H	19.01	20.32	19.39	20.65	21.01	19.01	20.32	19.39	20.65	21.01
	4H	19.62	20.84	20.02	21.19	21.57	19.62	20.84	20.02	21.19	21.57
	6H	20.22	21.34	20.63	21.71	22.10	20.22	21.34	20.63	21.71	22.10
	8H	20.46	21.53	20.88	21.92	22.32	20.46	21.53	20.88	21.92	22.32
	12H	20.64	21.66	21.07	22.05	22.48	20.64	21.66	21.07	22.05	22.48
4H	2H	18.25	19.47	18.65	19.82	20.20	18.25	19.47	18.65	19.82	20.20
	3H	19.49	20.49	19.90	20.89	21.29	19.49	20.49	19.90	20.89	21.29
	4H	20.31	21.21	20.74	21.62	22.06	20.31	21.21	20.74	21.62	22.06
	6H	21.12	21.90	21.58	22.34	22.80	21.12	21.90	21.58	22.34	22.80
	8H	21.44	22.16	21.90	22.61	23.08	21.44	22.16	21.90	22.61	23.08
	12H	21.70	22.35	22.18	22.83	23.30	21.70	22.35	22.18	22.83	23.30
8H	4H	20.63	21.35	21.09	21.80	22.27	20.63	21.35	21.09	21.80	22.27
	6H	21.59	22.20	22.09	22.69	23.17	21.59	22.20	22.09	22.69	23.17
	8H	22.01	22.57	22.53	23.08	23.57	22.01	22.57	22.53	23.08	23.57
	12H	22.38	22.88	22.89	23.37	23.94	22.38	22.88	22.89	23.37	23.94
12H	4H	20.67	21.32	21.15	21.80	22.27	20.67	21.32	21.15	21.80	22.27
	6H	21.68	22.23	22.19	22.74	23.23	21.68	22.23	22.19	22.74	23.23
	8H	22.17	22.66	22.68	23.15	23.72	22.17	22.66	22.68	23.15	23.72

END OF REPORT