

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: P979881

Luminaire Tested: PRLX-241-940-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5760.1 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

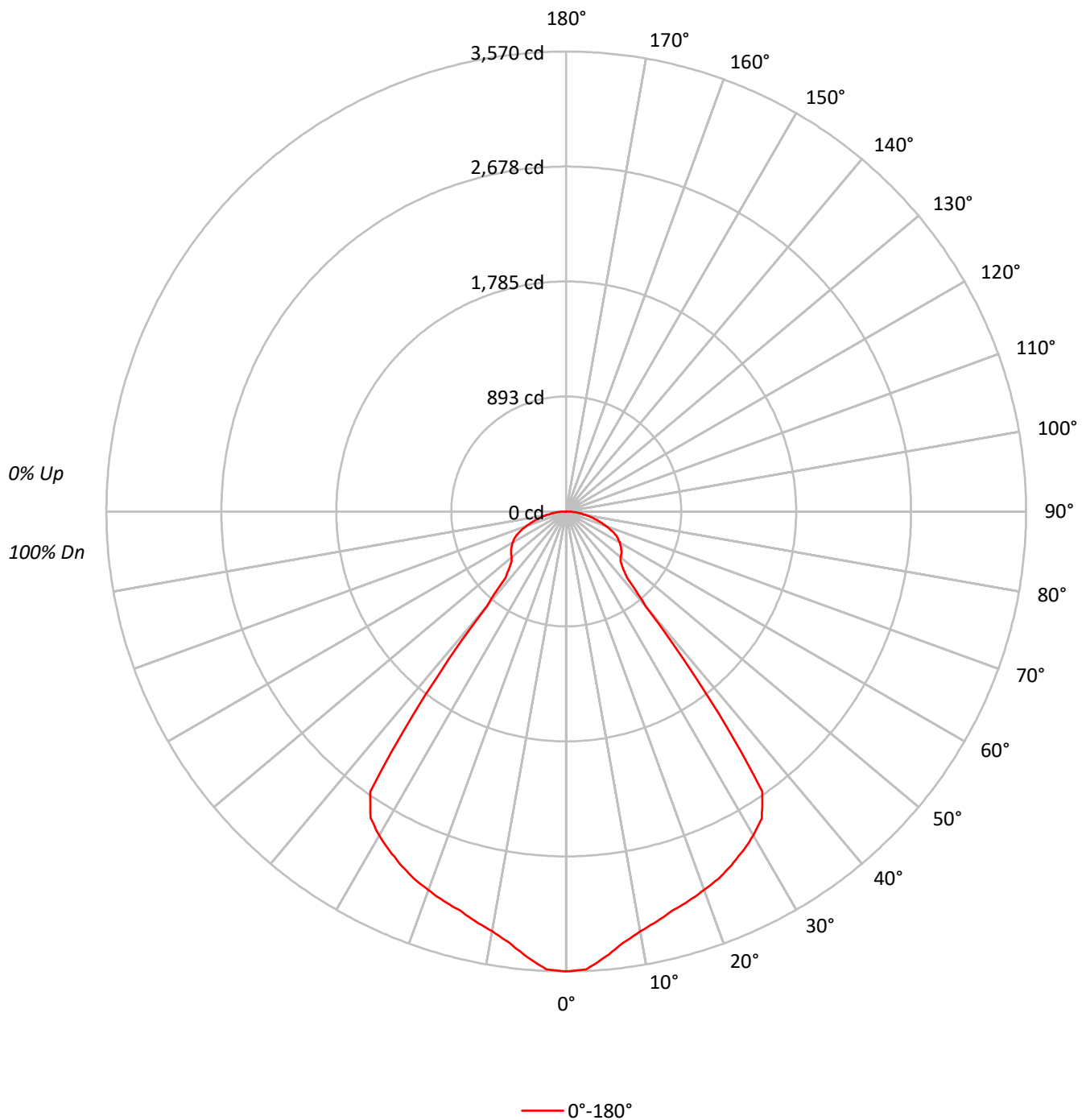
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		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	101	98		100	98	95		97	94	92		93	91	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	87	80	74		93	85	79	74		82	77	73		80	75	71		77	73	70
4	89	79	71	66		87	78	71	65		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	59		69	63	58		67	62	57		65	61	57
6	78	66	59	53		76	65	58	53		64	57	52		62	56	52		61	56	52
7	73	61	54	48		71	60	53	48		59	53	48		58	52	48		56	51	47
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	65	53	46	41		63	52	45	41		51	45	40		50	44	40		49	44	40
10	61	49	42	38		60	49	42	37		48	42	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27521
5°	26874
10°	25908
15°	25574
20°	25662
25°	25782
30°	25859
35°	24968
40°	9641
45°	6776
50°	6636
55°	7021
60°	7385
65°	7608
70°	7353
75°	6949
80°	6508
85°	6024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 7608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	5.7
10°-20°	908.1	15.8
20°-30°	1397.5	24.3
30°-40°	1421.4	24.7
40°-50°	509.2	8.8
50°-60°	465.7	8.1
60°-70°	406.9	7.1
70°-80°	247.5	4.3
80°-90°	77.8	1.4
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°	2631.5	45.7
0°-40°	4053.0	70.4
0°-60°	5027.9	87.3
0°-90°	5760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5760.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3570	
5°	3473	326
15°	3204	908
25°	3031	1397
35°	2653	1421
45°	622	509
55°	522	466
65°	417	407
75°	233	247
85°	68	78
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3569.9
2.5°	3557.5
5°	3472.8
7.5°	3377.8
10°	3309.7
12.5°	3258.1
15°	3204.4
17.5°	3169.3
20°	3128.0
22.5°	3086.7
25°	3031.0
27.5°	2969.0
30°	2905.0
32.5°	2824.5
35°	2653.1
37.5°	1796.3
40°	958.0
42.5°	697.9
45°	621.5
47.5°	574.0
50°	553.3
52.5°	538.9
55°	522.4
57.5°	501.7
60°	479.0
62.5°	452.2
65°	417.1
67.5°	371.6
70°	326.2
72.5°	278.7
75°	233.3
77.5°	190.0
80°	146.6
82.5°	107.4
85°	68.1
87.5°	37.2
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	17.23	18.55	17.59	18.86	19.18	17.23	18.55	17.59	18.86	19.18
	3H	19.39	20.57	19.77	20.90	21.27	19.39	20.57	19.77	20.90	21.27
	4H	20.17	21.28	20.57	21.63	22.01	20.17	21.28	20.57	21.63	22.01
	6H	20.76	21.78	21.17	22.15	22.55	20.76	21.78	21.17	22.15	22.55
	8H	20.96	21.93	21.39	22.32	22.73	20.96	21.93	21.39	22.32	22.73
	12H	21.10	22.03	21.53	22.41	22.84	21.10	22.03	21.53	22.41	22.84
4H	2H	17.98	19.09	18.38	19.44	19.82	17.98	19.09	18.38	19.44	19.82
	3H	20.29	21.22	20.70	21.62	22.03	20.29	21.22	20.70	21.62	22.03
	4H	21.19	22.03	21.62	22.44	22.89	21.19	22.03	21.62	22.44	22.89
	6H	21.90	22.63	22.37	23.07	23.54	21.90	22.63	22.37	23.07	23.54
	8H	22.15	22.83	22.62	23.28	23.75	22.15	22.83	22.62	23.28	23.75
	12H	22.34	22.94	22.83	23.42	23.90	22.34	22.94	22.83	23.42	23.90
8H	4H	21.51	22.19	21.98	22.64	23.11	21.51	22.19	21.98	22.64	23.11
	6H	22.37	22.92	22.87	23.42	23.90	22.37	22.92	22.87	23.42	23.90
	8H	22.71	23.20	23.23	23.72	24.21	22.71	23.20	23.23	23.72	24.21
	12H	22.99	23.42	23.50	23.91	24.48	22.99	23.42	23.50	23.91	24.48
12H	4H	21.54	22.14	22.03	22.62	23.10	21.54	22.14	22.03	22.62	23.10
	6H	22.43	22.93	22.95	23.44	23.93	22.43	22.93	22.95	23.44	23.93
	8H	22.84	23.27	23.35	23.76	24.33	22.84	23.27	23.35	23.76	24.33

END OF REPORT