

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: FAIL-SAFE

Report Number: P1498982

Luminaire Tested: MAE-G-4-120-1HI-STD-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

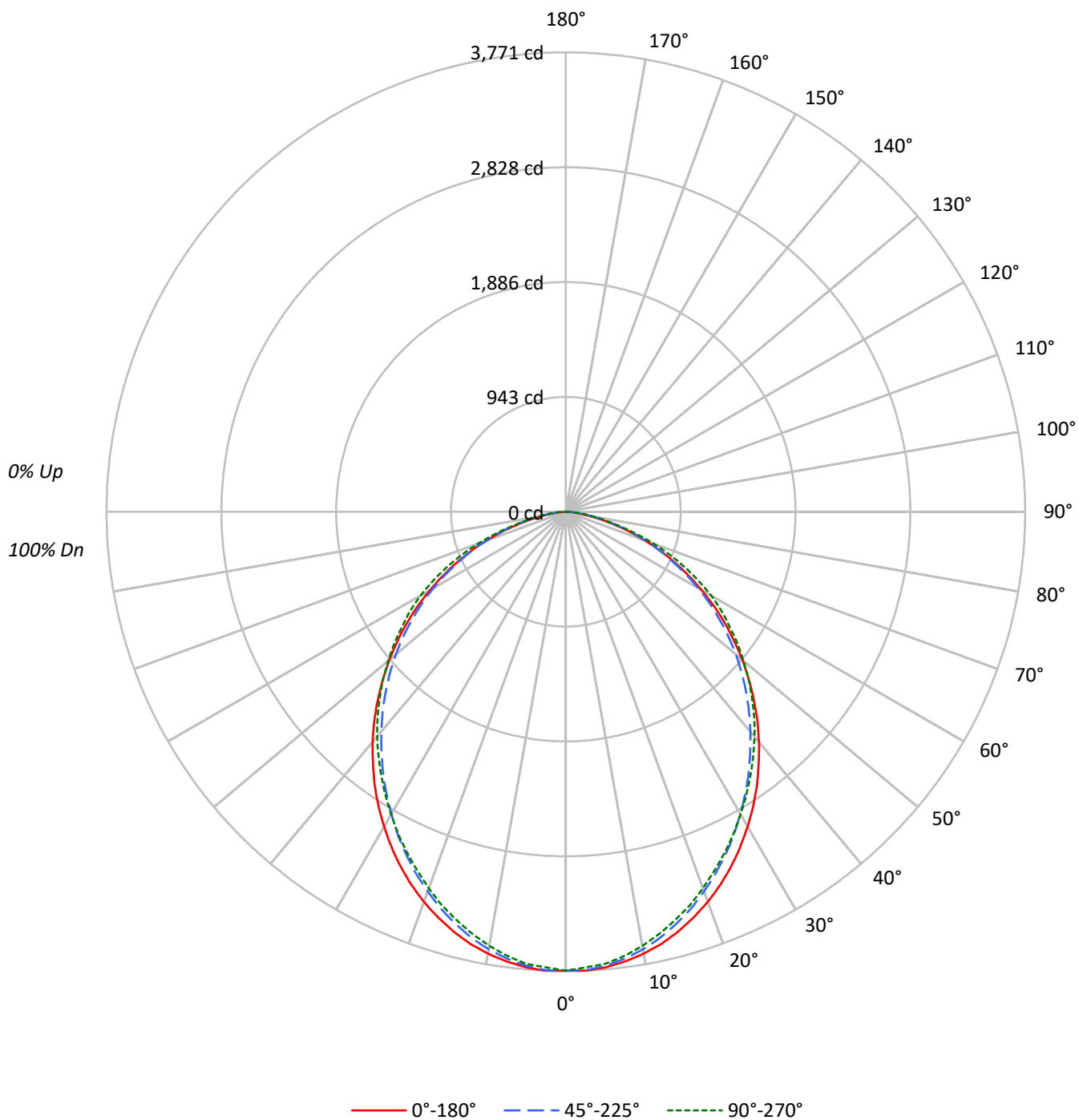
Lumens per Lamp: N/A
Luminaire Lumens: 9055.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
Input Voltage (V): NR
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		66	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5068	5068	5068
5°	5069	5051	5029
10°	5032	4983	4942
15°	4968	4877	4832
20°	4878	4748	4709
25°	4768	4607	4582
30°	4635	4448	4457
35°	4495	4298	4341
40°	4333	4139	4232
45°	4152	3981	4110
50°	3960	3812	3984
55°	3738	3612	3845
60°	3464	3381	3715
65°	3148	3075	3426
70°	2728	2748	3009
75°	2172	2308	2403
80°	1497	1738	1842
85°	834	1297	1658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	3.9
10°-20°	987.9	10.9
20°-30°	1438.1	15.9
30°-40°	1658.3	18.3
40°-50°	1644.4	18.2
50°-60°	1409.8	15.6
60°-70°	991.0	10.9
70°-80°	472.5	5.2
80°-90°	99.3	1.1
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°	2779.7	30.7
0°-40°	4438.0	49.0
0°-60°	7492.2	82.7
0°-90°	9055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3767	3767	3767	3767	3767	
5°	3753	3750	3740	3716	3724	356
15°	3566	3549	3502	3462	3469	1005
25°	3212	3170	3103	3074	3086	1478
35°	2736	2681	2617	2619	2643	1709
45°	2182	2133	2092	2131	2160	1683
55°	1594	1548	1540	1598	1639	1423
65°	989	954	966	1042	1076	979
75°	418	403	444	465	462	451
85°	54	65	84	101	107	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3766.7	3766.7	3766.7	3766.7	3766.7
2.5°	3771.1	3774.0	3766.7	3739.5	3743.5
5°	3753.4	3750.1	3739.8	3715.7	3723.7
7.5°	3723.2	3718.5	3700.1	3672.0	3677.5
10°	3683.1	3673.7	3646.9	3612.1	3617.3
12.5°	3631.4	3619.2	3581.6	3543.1	3549.0
15°	3566.3	3548.6	3501.5	3462.4	3468.8
17.5°	3491.6	3472.3	3415.9	3373.6	3386.2
20°	3407.0	3380.4	3316.0	3277.0	3288.8
22.5°	3314.1	3280.3	3213.6	3177.0	3187.5
25°	3211.7	3170.4	3103.2	3074.3	3086.4
27.5°	3101.1	3056.1	2988.3	2962.9	2980.3
30°	2983.6	2935.3	2863.0	2849.8	2868.7
32.5°	2863.0	2812.1	2741.3	2737.6	2756.6
35°	2736.4	2680.6	2616.7	2619.4	2642.6
37.5°	2600.8	2547.7	2485.3	2504.7	2526.9
40°	2466.9	2411.8	2356.5	2383.8	2409.6
42.5°	2327.7	2275.1	2226.1	2258.8	2288.8
45°	2182.2	2133.1	2092.2	2131.2	2160.1
47.5°	2036.6	1987.7	1957.6	2001.0	2034.4
50°	1892.0	1845.7	1821.0	1870.6	1903.1
52.5°	1740.9	1696.6	1683.0	1734.4	1774.1
55°	1593.6	1548.4	1539.6	1598.1	1639.1
57.5°	1441.8	1406.4	1399.6	1465.0	1514.8
60°	1287.3	1252.1	1256.4	1334.8	1380.5
62.5°	1137.1	1102.1	1109.0	1196.9	1227.7
65°	988.9	954.0	966.0	1042.4	1076.0
67.5°	842.9	810.2	834.6	905.2	926.5
70°	693.5	664.6	698.5	756.2	764.9
72.5°	553.9	529.0	571.2	608.5	608.5
75°	417.9	403.2	443.9	465.4	462.2
77.5°	298.7	291.0	326.7	338.8	336.5
80°	193.2	197.6	224.3	232.9	237.7
82.5°	112.4	121.6	142.0	163.6	168.7
85°	54.0	65.1	84.0	100.8	107.4
87.5°	18.7	26.1	34.8	38.5	37.5
90°	0.0	0.0	0.0	0.0	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	16.42	18.00	16.78	18.32	18.63	16.72	18.31	17.09	18.62	18.94
	3H	17.86	19.28	18.24	19.61	19.97	18.33	19.75	18.71	20.08	20.44
	4H	18.28	19.62	18.68	19.97	20.34	18.80	20.13	19.19	20.48	20.86
	6H	18.50	19.73	18.91	20.10	20.49	19.05	20.29	19.46	20.66	21.05
	8H	18.53	19.71	18.95	20.10	20.50	19.12	20.30	19.55	20.69	21.09
	12H	18.53	19.66	18.96	20.04	20.47	19.17	20.30	19.60	20.69	21.11
4H	2H	16.95	18.28	17.35	18.63	19.01	17.20	18.53	17.60	18.88	19.26
	3H	18.57	19.68	18.98	20.08	20.48	19.00	20.12	19.41	20.51	20.92
	4H	19.08	20.08	19.51	20.49	20.93	19.58	20.58	20.01	20.99	21.43
	6H	19.37	20.24	19.83	20.68	21.14	19.93	20.80	20.39	21.24	21.70
	8H	19.42	20.24	19.88	20.68	21.15	20.03	20.85	20.50	21.29	21.76
	12H	19.44	20.17	19.93	20.65	21.12	20.12	20.85	20.60	21.32	21.79
8H	4H	19.29	20.11	19.76	20.55	21.02	19.75	20.56	20.21	21.01	21.47
	6H	19.65	20.33	20.15	20.82	21.29	20.18	20.85	20.67	21.34	21.81
	8H	19.74	20.34	20.25	20.85	21.34	20.33	20.93	20.84	21.44	21.93
	12H	19.79	20.32	20.29	20.81	21.37	20.46	21.00	20.97	21.49	22.05
12H	4H	19.30	20.03	19.78	20.51	20.98	19.75	20.48	20.23	20.95	21.42
	6H	19.67	20.27	20.18	20.78	21.27	20.18	20.78	20.69	21.29	21.78
	8H	19.79	20.32	20.30	20.82	21.38	20.37	20.90	20.88	21.39	21.96

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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