

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: P1499313

Luminaire Tested: MAE-G-4-120-2LO-HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

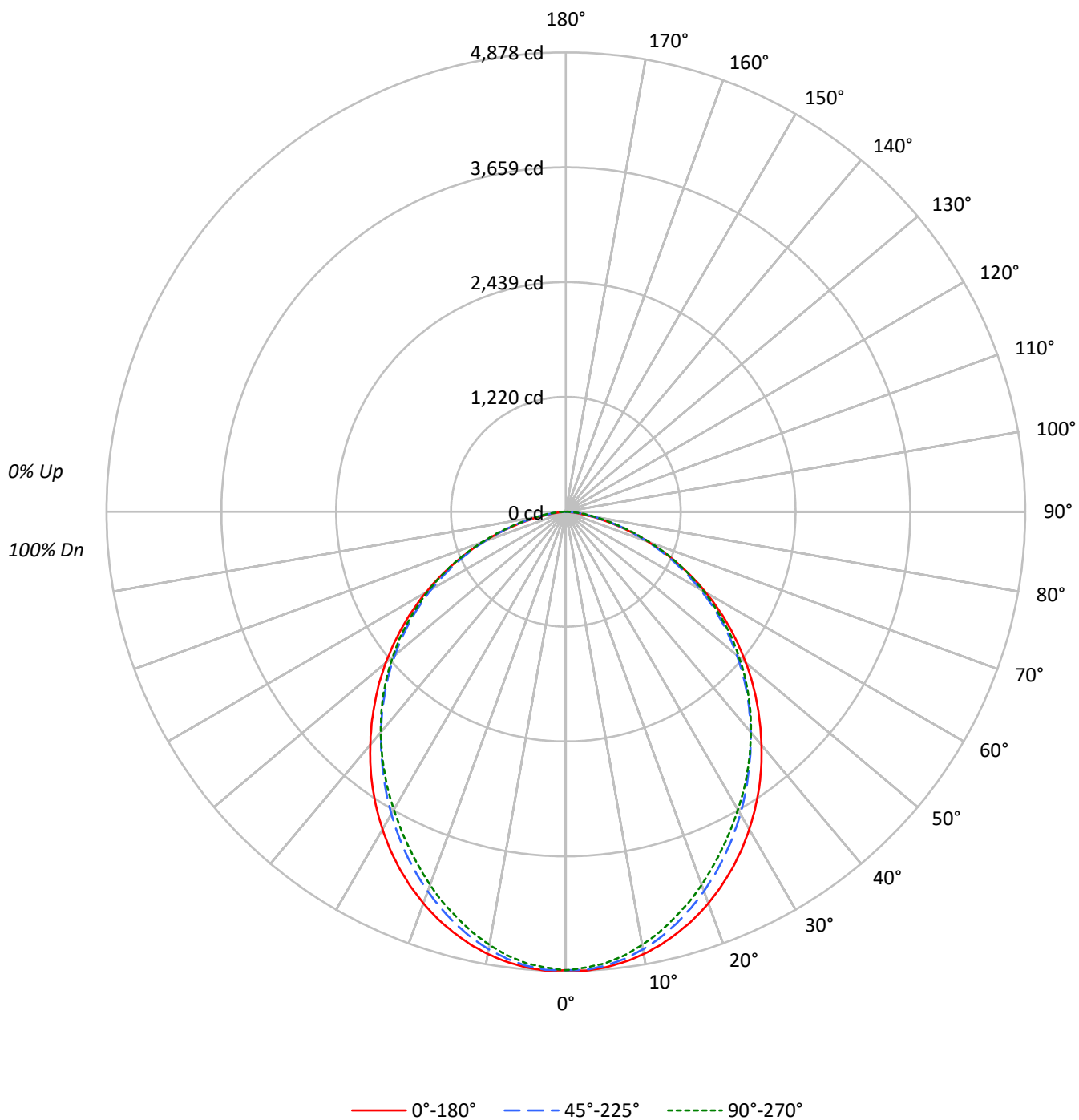
Lumens per Lamp: N/A
Luminaire Lumens: 11718.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6551	6551	6551
5°	6560	6536	6500
10°	6516	6447	6380
15°	6438	6308	6216
20°	6336	6138	6037
25°	6205	5954	5847
30°	6051	5756	5674
35°	5876	5555	5522
40°	5676	5363	5370
45°	5461	5170	5213
50°	5225	4964	5025
55°	4953	4725	4811
60°	4626	4435	4560
65°	4216	4068	4215
70°	3653	3609	3751
75°	2924	3023	3140
80°	2002	2250	2430
85°	1056	1629	2152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	3.9
10°-20°	1275.7	10.9
20°-30°	1856.0	15.8
30°-40°	2141.9	18.3
40°-50°	2127.9	18.2
50°-60°	1826.6	15.6
60°-70°	1284.8	11.0
70°-80°	619.5	5.3
80°-90°	128.3	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°	3589.0	30.6
0°-40°	5730.9	48.9
0°-60°	9685.4	82.7
0°-90°	11718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4869	4869	4869	4869	4869	
5°	4857	4843	4839	4805	4812	461
15°	4622	4586	4528	4462	4462	1303
25°	4180	4117	4011	3939	3938	1924
35°	3578	3493	3382	3350	3362	2236
45°	2870	2789	2717	2724	2740	2214
55°	2111	2044	2014	2037	2051	1885
65°	1324	1280	1278	1308	1324	1310
75°	562	545	582	598	604	605
85°	68	80	106	129	139	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4869.1	4869.1	4869.1	4869.1	4869.1
2.5°	4877.9	4866.7	4869.1	4842.3	4844.6
5°	4857.2	4842.9	4839.1	4804.7	4812.5
7.5°	4820.1	4801.5	4787.8	4747.2	4753.3
10°	4769.1	4744.4	4718.6	4667.6	4670.0
12.5°	4703.2	4673.1	4632.4	4572.2	4575.3
15°	4621.6	4585.9	4528.5	4462.0	4462.4
17.5°	4530.9	4489.7	4413.4	4341.8	4346.7
20°	4424.8	4377.1	4287.0	4212.9	4216.4
22.5°	4306.5	4251.0	4155.1	4080.0	4078.5
25°	4179.6	4116.6	4010.8	3939.4	3938.4
27.5°	4042.3	3971.9	3860.7	3793.8	3795.8
30°	3894.5	3819.1	3705.1	3647.6	3652.3
32.5°	3739.1	3659.9	3547.0	3502.1	3512.2
35°	3577.6	3492.9	3382.0	3350.4	3361.9
37.5°	3408.9	3325.0	3218.8	3200.3	3211.9
40°	3231.8	3150.0	3053.6	3043.9	3057.6
42.5°	3052.6	2972.4	2887.1	2886.5	2901.4
45°	2869.8	2789.1	2717.0	2723.7	2739.5
47.5°	2686.7	2607.0	2547.2	2559.4	2573.7
50°	2496.3	2421.3	2371.5	2388.4	2400.5
52.5°	2301.2	2231.3	2194.3	2215.0	2234.0
55°	2111.3	2043.5	2014.4	2037.1	2050.8
57.5°	1914.9	1856.2	1834.0	1857.2	1872.5
60°	1719.1	1663.9	1648.1	1676.3	1694.5
62.5°	1521.0	1470.5	1463.8	1493.8	1510.2
65°	1324.4	1280.3	1277.7	1307.5	1323.9
67.5°	1128.6	1089.3	1097.0	1132.3	1141.9
70°	928.6	896.8	917.3	946.6	953.6
72.5°	742.3	715.3	744.4	768.7	772.2
75°	562.4	544.9	581.6	598.0	604.0
77.5°	398.6	394.4	425.6	442.1	449.4
80°	258.4	266.3	290.4	309.9	313.6
82.5°	147.0	158.1	181.1	209.5	220.5
85°	68.4	80.3	105.5	129.1	139.4
87.5°	23.0	31.7	44.7	48.8	46.7
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	17.46	19.05	17.83	19.36	19.67	17.44	19.02	17.80	19.34	19.65
	3H	18.94	20.37	19.32	20.69	21.05	19.01	20.43	19.38	20.76	21.12
	4H	19.37	20.71	19.77	21.06	21.44	19.50	20.84	19.90	21.19	21.56
	6H	19.59	20.83	20.00	21.20	21.59	19.79	21.03	20.20	21.39	21.79
	8H	19.62	20.80	20.05	21.19	21.59	19.87	21.05	20.29	21.44	21.84
	12H	19.63	20.76	20.06	21.14	21.57	19.92	21.05	20.35	21.44	21.86
4H	2H	17.99	19.33	18.39	19.68	20.05	17.97	19.31	18.37	19.66	20.04
	3H	19.65	20.77	20.06	21.16	21.56	19.73	20.85	20.14	21.25	21.65
	4H	20.17	21.18	20.60	21.59	22.03	20.33	21.33	20.76	21.75	22.19
	6H	20.47	21.35	20.93	21.79	22.24	20.72	21.59	21.17	22.03	22.49
	8H	20.52	21.34	20.98	21.78	22.25	20.83	21.64	21.29	22.09	22.55
	12H	20.54	21.27	21.02	21.75	22.22	20.91	21.64	21.39	22.12	22.59
8H	4H	20.38	21.19	20.84	21.64	22.10	20.52	21.34	20.98	21.78	22.25
	6H	20.74	21.42	21.24	21.90	22.38	20.98	21.66	21.48	22.15	22.62
	8H	20.82	21.43	21.33	21.93	22.42	21.14	21.75	21.65	22.25	22.74
	12H	20.86	21.40	21.37	21.89	22.45	21.28	21.81	21.79	22.31	22.87
12H	4H	20.38	21.12	20.87	21.59	22.06	20.52	21.25	21.00	21.73	22.20
	6H	20.75	21.36	21.26	21.87	22.35	20.99	21.59	21.50	22.10	22.59
	8H	20.87	21.41	21.38	21.90	22.46	21.19	21.72	21.69	22.21	22.77