

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: P1499697

Luminaire Tested: MAE-G-4-120-3STD-HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

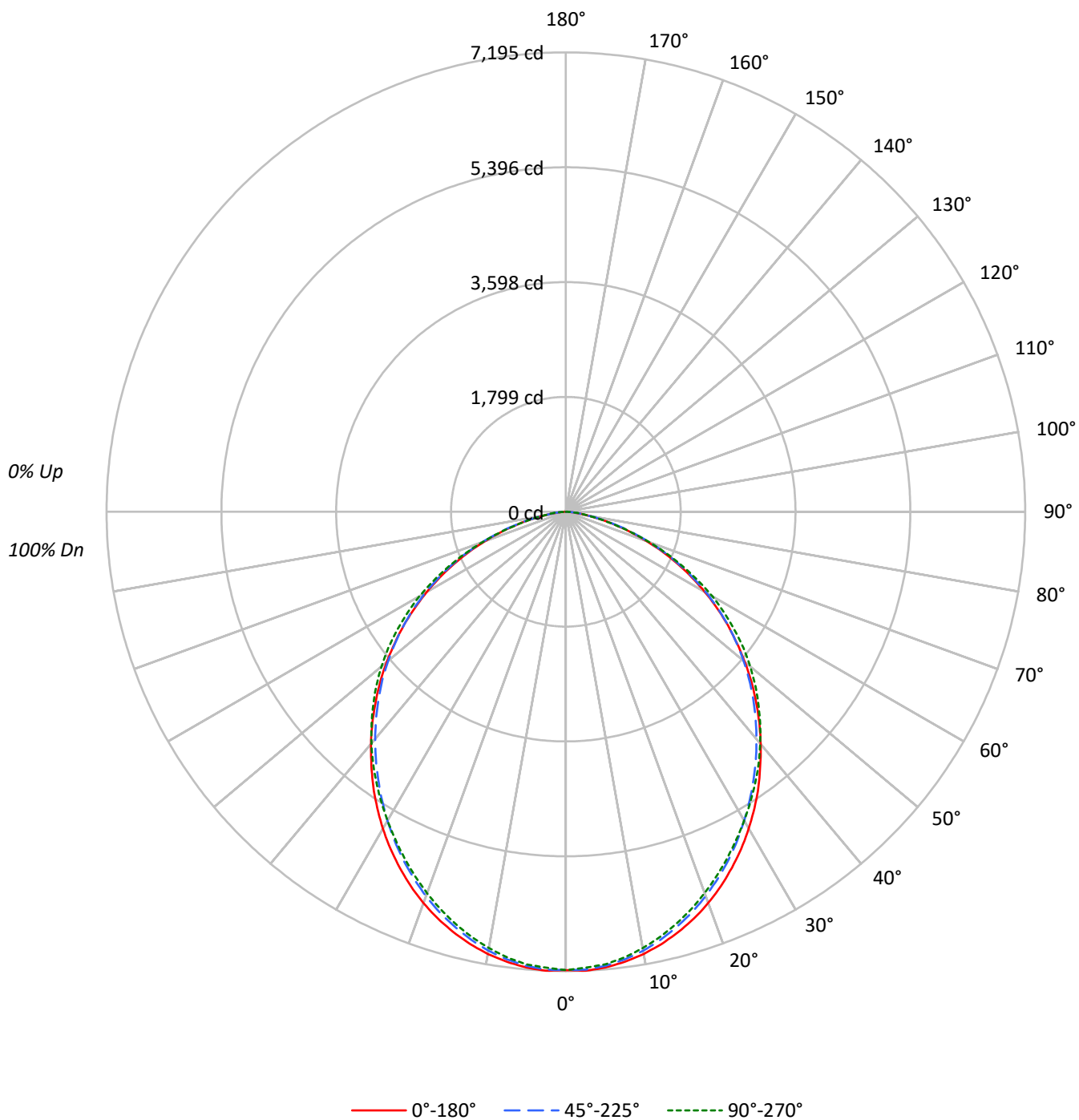
Lumens per Lamp: N/A
Luminaire Lumens: 17594.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	81	98	91	85	80	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9658	9658	9658
5°	9675	9643	9607
10°	9609	9537	9481
15°	9493	9372	9306
20°	9339	9172	9102
25°	9136	8940	8882
30°	8903	8680	8677
35°	8640	8417	8503
40°	8341	8160	8320
45°	8017	7899	8119
50°	7663	7606	7886
55°	7263	7268	7559
60°	6768	6840	7138
65°	6152	6269	6424
70°	5305	5473	5476
75°	4221	4393	4185
80°	2852	2955	2838
85°	1477	1917	2376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.5	3.8
10°-20°	1895.6	10.8
20°-30°	2779.0	15.8
30°-40°	3230.1	18.4
40°-50°	3232.0	18.4
50°-60°	2789.8	15.9
60°-70°	1945.9	11.1
70°-80°	886.3	5.0
80°-90°	159.7	0.9
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°	5350.1	30.4
0°-40°	8580.2	48.8
0°-60°	14602.1	83.0
0°-90°	17594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7178	7178	7178	7178	7178	
5°	7163	7135	7139	7103	7113	680
15°	6815	6770	6728	6672	6681	1920
25°	6154	6091	6022	5963	5983	2833
35°	5260	5182	5124	5132	5176	3286
45°	4213	4152	4151	4219	4267	3251
55°	3096	3049	3098	3189	3222	2764
65°	1932	1915	1969	2009	2018	1910
75°	812	813	845	824	805	872
85°	96	104	124	145	154	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7178.2	7178.2	7178.2	7178.2	7178.2
2.5°	7195.4	7168.2	7178.2	7149.7	7146.4
5°	7163.4	7134.6	7139.4	7103.0	7113.1
7.5°	7108.0	7076.4	7071.6	7030.9	7039.8
10°	7032.8	6994.9	6980.1	6932.7	6939.1
12.5°	6932.8	6892.3	6865.6	6810.7	6821.1
15°	6815.0	6769.5	6728.0	6671.7	6680.7
17.5°	6678.5	6627.5	6576.7	6512.1	6527.5
20°	6522.1	6466.0	6405.5	6337.3	6357.0
22.5°	6346.7	6286.4	6218.3	6155.2	6174.0
25°	6153.7	6091.1	6022.0	5963.1	5982.8
27.5°	5950.5	5880.8	5809.4	5763.2	5785.2
30°	5730.7	5657.6	5587.0	5553.0	5585.2
32.5°	5498.6	5425.1	5359.5	5346.1	5383.7
35°	5260.0	5182.1	5124.1	5132.3	5176.5
37.5°	5003.6	4935.6	4887.6	4917.1	4961.8
40°	4749.0	4678.5	4645.9	4689.4	4736.9
42.5°	4485.7	4421.5	4401.1	4461.2	4505.0
45°	4213.4	4152.3	4151.0	4219.1	4266.9
47.5°	3945.0	3883.4	3896.8	3972.7	4025.1
50°	3661.0	3607.8	3633.5	3720.6	3767.5
52.5°	3377.1	3326.5	3367.7	3460.4	3506.6
55°	3096.2	3048.7	3098.4	3189.2	3222.5
57.5°	2804.9	2772.2	2825.8	2906.6	2942.4
60°	2514.9	2485.6	2541.7	2619.1	2652.4
62.5°	2224.3	2202.3	2258.0	2323.3	2336.6
65°	1932.5	1914.7	1969.1	2008.6	2017.7
67.5°	1636.9	1628.7	1681.3	1706.6	1708.1
70°	1348.5	1337.9	1391.1	1403.7	1392.1
72.5°	1068.3	1067.5	1106.4	1107.0	1086.2
75°	812.0	812.9	845.1	824.2	805.1
77.5°	573.8	576.5	596.4	572.2	561.8
80°	368.1	379.0	381.4	373.6	366.3
82.5°	206.5	219.3	221.1	242.0	251.0
85°	95.7	104.5	124.2	145.1	153.9
87.5°	32.5	39.9	51.2	55.1	51.7
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	18.81	20.40	19.18	20.71	21.02	19.14	20.73	19.51	21.04	21.36
	3H	20.26	21.69	20.64	22.02	22.38	20.58	22.01	20.96	22.33	22.70
	4H	20.68	22.02	21.08	22.37	22.75	20.97	22.31	21.37	22.66	23.03
	6H	20.89	22.13	21.30	22.49	22.88	21.15	22.39	21.56	22.75	23.14
	8H	20.92	22.09	21.34	22.48	22.88	21.18	22.36	21.61	22.75	23.15
	12H	20.91	22.04	21.34	22.42	22.85	21.20	22.33	21.63	22.71	23.14
4H	2H	19.39	20.73	19.79	21.07	21.45	19.66	20.99	20.06	21.34	21.72
	3H	21.02	22.13	21.43	22.53	22.93	21.28	22.40	21.69	22.79	23.19
	4H	21.52	22.52	21.95	22.94	23.38	21.76	22.76	22.19	23.18	23.61
	6H	21.80	22.67	22.26	23.11	23.57	22.01	22.88	22.47	23.32	23.78
	8H	21.84	22.66	22.31	23.10	23.57	22.06	22.88	22.53	23.32	23.79
	12H	21.86	22.58	22.34	23.06	23.53	22.10	22.83	22.59	23.31	23.78
8H	4H	21.71	22.52	22.17	22.97	23.43	21.93	22.74	22.39	23.18	23.65
	6H	22.04	22.71	22.54	23.20	23.68	22.23	22.90	22.72	23.39	23.87
	8H	22.11	22.71	22.62	23.22	23.71	22.31	22.91	22.83	23.42	23.91
	12H	22.15	22.68	22.65	23.17	23.73	22.39	22.92	22.90	23.41	23.97
12H	4H	21.71	22.44	22.19	22.91	23.38	21.92	22.65	22.40	23.13	23.60
	6H	22.04	22.64	22.55	23.15	23.64	22.22	22.83	22.74	23.33	23.82
	8H	22.14	22.67	22.65	23.16	23.73	22.34	22.87	22.85	23.36	23.93