

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: P1498281

Luminaire Tested: MAE-G-2-120-1STD-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498281
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-2-120-1STD-LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

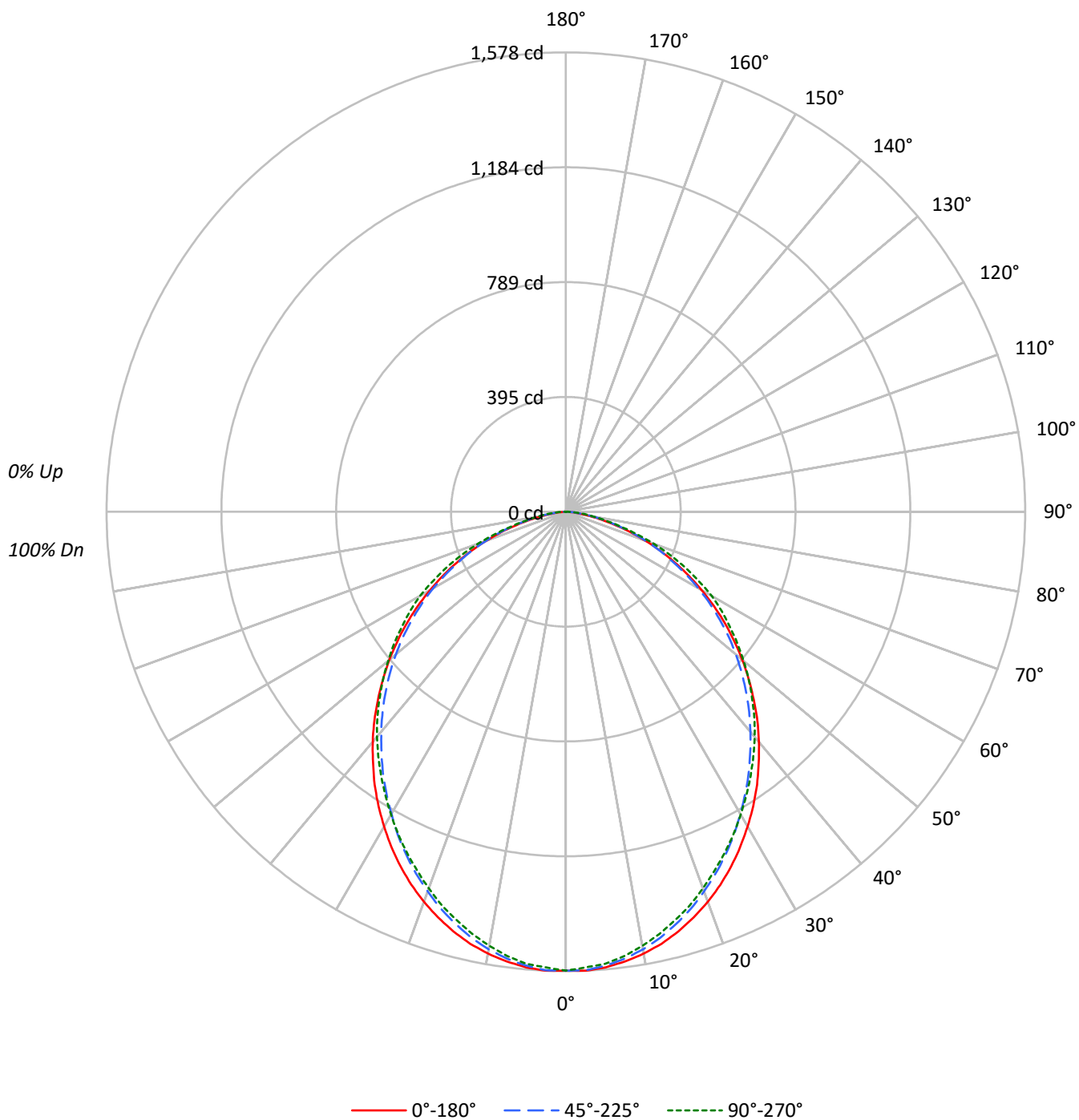
Lumens per Lamp: N/A
Luminaire Lumens: 3790.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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

TEST NUMBER: P1498281

CATALOG NUMBER: MAE-G-2-120-1STD-LO-40

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°	4242	4242	4242
5°	4243	4227	4209
10°	4211	4170	4137
15°	4158	4082	4045
20°	4082	3975	3942
25°	3990	3857	3837
30°	3879	3724	3732
35°	3761	3598	3635
40°	3626	3465	3545
45°	3475	3333	3443
50°	3314	3192	3337
55°	3128	3024	3221
60°	2899	2831	3112
65°	2634	2574	2869
70°	2282	2300	2518
75°	1816	1931	2009
80°	1252	1452	1537
85°	698	1081	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3475 cd/sqm

TEST NUMBER: P1498281

CATALOG NUMBER: MAE-G-2-120-1STD-LO-40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.9
10°-20°	413.4	10.9
20°-30°	601.9	15.9
30°-40°	694.1	18.3
40°-50°	688.4	18.2
50°-60°	590.2	15.6
60°-70°	414.8	10.9
70°-80°	197.6	5.2
80°-90°	41.5	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°	1163.4	30.7
0°-40°	1857.5	49.0
0°-60°	3136.1	82.7
0°-90°	3790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1571	1569	1565	1555	1558	149
15°	1492	1485	1465	1449	1452	420
25°	1344	1327	1299	1287	1292	618
35°	1145	1122	1095	1097	1106	715
45°	913	893	876	892	905	704
55°	667	648	645	669	687	595
65°	414	399	404	436	450	409
75°	175	169	186	195	193	189
85°	23	27	35	42	45	32
90°	0	0	0	0	0	

TEST NUMBER: P1498281

CATALOG NUMBER: MAE-G-2-120-1STD-LO-40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.2	1576.2	1576.2	1576.2	1576.2
2.5°	1578.1	1579.3	1576.2	1564.8	1566.6
5°	1570.6	1569.3	1565.0	1555.0	1558.3
7.5°	1558.0	1556.0	1548.4	1536.7	1539.0
10°	1541.2	1537.3	1526.1	1511.7	1513.9
12.5°	1519.6	1514.6	1498.9	1482.9	1485.3
15°	1492.4	1484.9	1465.4	1449.2	1451.8
17.5°	1461.1	1453.0	1429.6	1412.0	1417.3
20°	1425.6	1414.6	1387.9	1371.7	1376.7
22.5°	1386.8	1372.7	1345.0	1329.9	1334.4
25°	1343.9	1326.7	1298.9	1287.0	1292.2
27.5°	1297.7	1278.9	1250.8	1240.4	1247.8
30°	1248.4	1228.3	1198.4	1193.1	1201.1
32.5°	1197.9	1176.8	1147.5	1146.3	1154.2
35°	1144.9	1121.8	1095.4	1096.7	1106.5
37.5°	1088.2	1066.2	1040.3	1048.7	1058.2
40°	1032.2	1009.3	986.5	998.2	1009.1
42.5°	973.9	952.1	931.9	945.8	958.6
45°	913.0	892.7	875.9	892.5	904.7
47.5°	852.1	831.8	819.5	838.0	852.1
50°	791.6	772.3	762.4	783.4	797.1
52.5°	728.4	709.9	704.5	726.5	743.1
55°	666.8	647.9	644.6	669.3	686.6
57.5°	603.2	588.5	586.0	613.6	634.6
60°	538.6	523.9	526.1	559.1	578.2
62.5°	475.6	461.2	464.3	501.2	514.1
65°	413.6	399.2	404.3	436.5	450.5
67.5°	352.6	339.0	349.4	379.0	387.9
70°	290.1	278.1	292.3	316.5	320.0
72.5°	231.7	221.3	239.0	254.6	254.4
75°	174.7	168.7	185.7	194.6	193.2
77.5°	124.9	121.8	136.5	141.5	140.5
80°	80.8	82.7	93.7	97.2	99.2
82.5°	47.0	50.9	59.2	68.3	70.4
85°	22.6	27.2	35.0	42.0	44.8
87.5°	7.9	11.0	14.5	16.1	15.7
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	15.80	17.38	16.16	17.70	18.01	16.11	17.69	16.48	18.01	18.32
	3H	17.24	18.66	17.62	18.99	19.35	17.71	19.14	18.09	19.47	19.83
	4H	17.66	19.00	18.06	19.35	19.72	18.18	19.52	18.58	19.87	20.24
	6H	17.88	19.11	18.29	19.48	19.87	18.44	19.67	18.85	20.04	20.43
	8H	17.91	19.09	18.33	19.48	19.88	18.51	19.69	18.93	20.08	20.48
	12H	17.91	19.04	18.34	19.42	19.85	18.56	19.68	18.99	20.07	20.50
4H	2H	16.33	17.67	16.73	18.01	18.39	16.58	17.92	16.98	18.27	18.65
	3H	17.95	19.06	18.36	19.46	19.86	18.39	19.50	18.80	19.90	20.30
	4H	18.46	19.46	18.89	19.87	20.31	18.96	19.96	19.39	20.38	20.82
	6H	18.75	19.62	19.21	20.06	20.52	19.31	20.18	19.77	20.63	21.08
	8H	18.80	19.62	19.26	20.06	20.53	19.41	20.23	19.88	20.67	21.14
	12H	18.82	19.55	19.30	20.03	20.50	19.50	20.23	19.98	20.70	21.17
8H	4H	18.67	19.49	19.14	19.93	20.40	19.13	19.95	19.59	20.39	20.86
	6H	19.03	19.71	19.53	20.20	20.67	19.56	20.23	20.05	20.72	21.19
	8H	19.12	19.72	19.63	20.23	20.71	19.71	20.31	20.22	20.82	21.30
	12H	19.17	19.70	19.67	20.19	20.75	19.84	20.37	20.35	20.86	21.43
12H	4H	18.68	19.41	19.16	19.89	20.36	19.13	19.86	19.61	20.34	20.81
	6H	19.05	19.65	19.56	20.16	20.65	19.56	20.16	20.07	20.67	21.16
	8H	19.17	19.70	19.68	20.19	20.76	19.75	20.28	20.26	20.77	21.34