

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: P1498506

Luminaire Tested: MAE-G-2-120-2STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498506
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-2-120-2STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

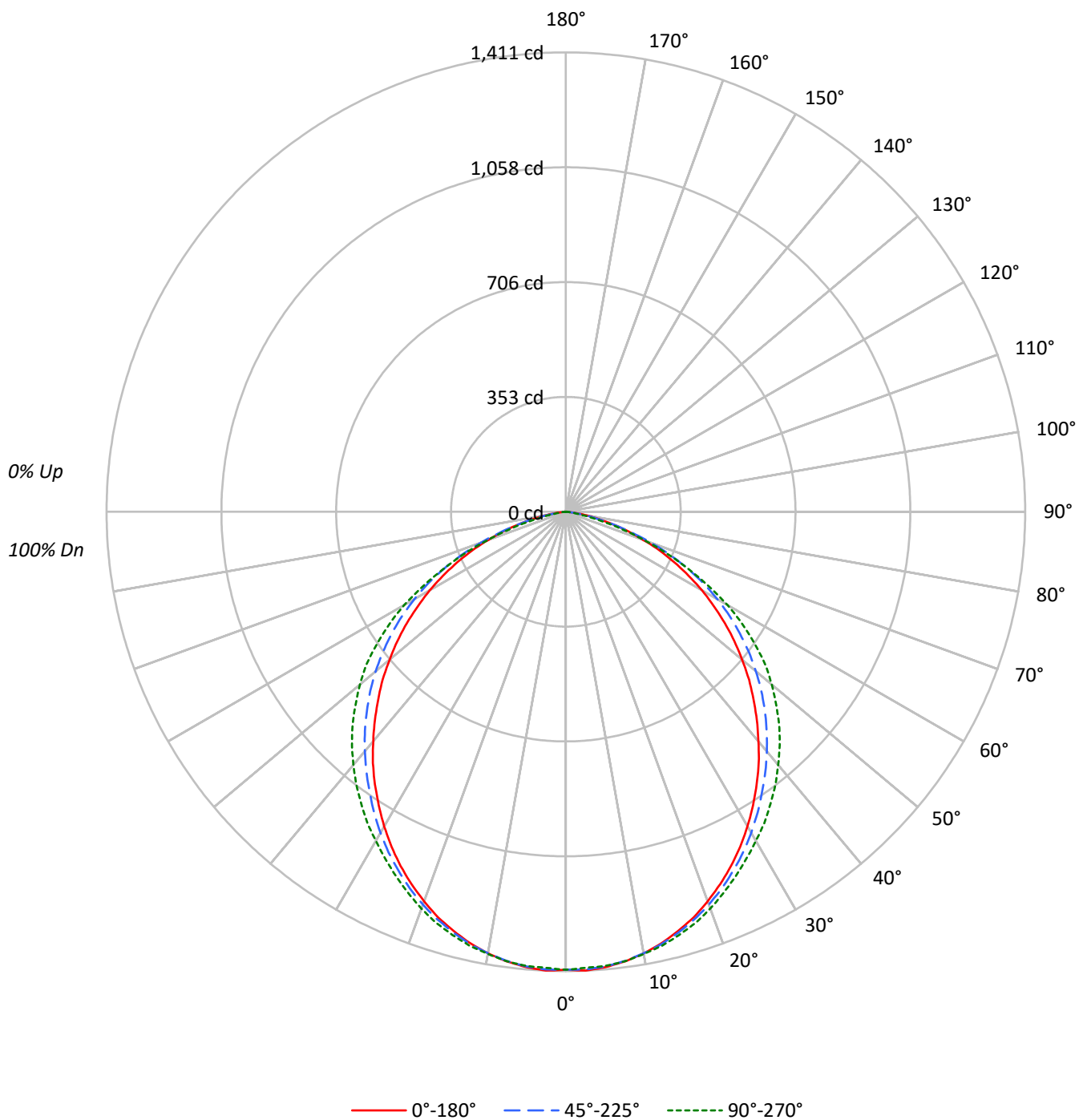
Lumens per Lamp: N/A
Luminaire Lumens: 3551.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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

TEST NUMBER: P1498506

CATALOG NUMBER: MAE-G-2-120-2STD-30-90

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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3785	3785	3785
5°	3792	3786	3782
10°	3763	3763	3768
15°	3713	3726	3749
20°	3647	3677	3715
25°	3565	3613	3666
30°	3467	3539	3628
35°	3358	3452	3600
40°	3234	3375	3566
45°	3102	3290	3527
50°	2958	3192	3455
55°	2795	3064	3326
60°	2597	2892	3088
65°	2342	2628	2643
70°	1999	2187	2044
75°	1570	1583	1277
80°	1021	815	490
85°	472	309	250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3527 cd/sqm

TEST NUMBER: P1498506

CATALOG NUMBER: MAE-G-2-120-2STD-30-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.7
10°-20°	376.8	10.6
20°-30°	559.8	15.8
30°-40°	659.4	18.6
40°-50°	668.0	18.8
50°-60°	581.4	16.4
60°-70°	396.2	11.2
70°-80°	158.4	4.5
80°-90°	18.1	0.5
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°	1069.5	30.1
0°-40°	1728.9	48.7
0°-60°	2978.3	83.9
0°-90°	3551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1404	1396	1402	1400	1400	133
15°	1333	1327	1338	1342	1346	376
25°	1201	1201	1217	1227	1235	553
35°	1022	1027	1051	1079	1096	639
45°	815	825	865	905	927	629
55°	596	609	653	694	709	532
65°	368	385	413	413	415	364
75°	151	160	152	131	123	163
85°	15	14	10	9	8	24
90°	0	0	0	0	0	

TEST NUMBER: P1498506

CATALOG NUMBER: MAE-G-2-120-2STD-30-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.7	1406.7	1406.7	1406.7	1406.7
2.5°	1410.6	1401.6	1406.7	1405.8	1402.0
5°	1403.9	1395.7	1401.6	1399.7	1400.1
7.5°	1392.9	1385.3	1391.5	1391.0	1392.5
10°	1377.2	1369.6	1377.2	1377.6	1379.1
12.5°	1357.5	1350.9	1360.0	1361.9	1365.2
15°	1332.7	1327.0	1337.5	1342.3	1345.6
17.5°	1306.0	1302.2	1312.7	1318.9	1324.2
20°	1273.5	1271.6	1284.0	1290.2	1297.3
22.5°	1238.1	1237.2	1252.1	1259.7	1266.8
25°	1200.8	1201.4	1216.7	1226.7	1234.8
27.5°	1159.8	1160.7	1179.4	1191.3	1201.4
30°	1115.9	1118.3	1138.8	1155.0	1167.5
32.5°	1069.5	1073.8	1095.8	1118.3	1134.0
35°	1022.2	1027.1	1050.9	1078.6	1095.8
37.5°	973.5	978.8	1006.5	1039.0	1057.2
40°	920.5	928.6	960.7	996.4	1015.0
42.5°	868.4	877.5	913.4	952.5	972.6
45°	815.0	825.0	864.6	905.2	926.7
47.5°	763.3	771.9	814.4	857.0	876.1
50°	706.5	717.9	762.4	804.9	825.4
52.5°	652.1	663.0	708.4	751.8	772.9
55°	595.7	608.6	653.0	694.1	708.9
57.5°	538.9	553.7	596.6	630.5	643.4
60°	482.5	497.3	537.4	564.1	573.7
62.5°	425.6	440.9	476.3	492.5	494.4
65°	367.8	385.0	412.7	413.2	415.1
67.5°	312.9	327.2	347.2	341.5	338.7
70°	254.1	269.9	278.0	266.6	259.8
72.5°	202.1	213.5	212.1	195.3	187.3
75°	151.0	160.1	152.3	130.9	122.8
77.5°	104.6	112.2	96.9	76.9	68.8
80°	65.9	69.3	52.6	37.3	31.6
82.5°	35.4	34.8	22.5	18.6	17.2
85°	15.3	13.8	10.0	9.1	8.1
87.5°	5.3	4.8	3.8	3.4	2.9
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	15.54	17.12	15.91	17.44	17.75	16.50	18.08	16.87	18.40	18.71
	3H	16.96	18.38	17.34	18.71	19.07	17.69	19.11	18.07	19.44	19.80
	4H	17.36	18.69	17.76	19.04	19.41	17.91	19.24	18.31	19.59	19.96
	6H	17.53	18.76	17.94	19.13	19.52	17.92	19.16	18.34	19.52	19.91
	8H	17.54	18.72	17.97	19.10	19.50	17.90	19.07	18.33	19.46	19.86
	12H	17.53	18.66	17.96	19.04	19.47	17.88	19.00	18.31	19.38	19.81
4H	2H	16.20	17.54	16.60	17.88	18.26	16.98	18.31	17.37	18.66	19.03
	3H	17.78	18.88	18.19	19.28	19.68	18.33	19.43	18.74	19.83	20.23
	4H	18.26	19.25	18.69	19.66	20.10	18.59	19.59	19.03	20.00	20.44
	6H	18.50	19.36	18.95	19.80	20.26	18.65	19.51	19.10	19.95	20.41
	8H	18.52	19.32	18.98	19.77	20.23	18.62	19.42	19.08	19.87	20.33
	12H	18.52	19.23	19.00	19.71	20.18	18.60	19.32	19.08	19.79	20.26
8H	4H	18.39	19.20	18.85	19.64	20.11	18.71	19.51	19.17	19.95	20.42
	6H	18.67	19.33	19.16	19.82	20.30	18.77	19.43	19.26	19.92	20.40
	8H	18.71	19.30	19.22	19.81	20.29	18.74	19.34	19.26	19.84	20.33
	12H	18.72	19.24	19.23	19.73	20.30	18.73	19.25	19.24	19.74	20.31
12H	4H	18.37	19.09	18.86	19.57	20.04	18.70	19.41	19.18	19.89	20.36
	6H	18.64	19.23	19.15	19.74	20.23	18.74	19.34	19.26	19.85	20.33
	8H	18.70	19.22	19.21	19.71	20.28	18.74	19.26	19.25	19.76	20.32