

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: P1498512

Luminaire Tested: MAE-G-2-120-2STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498512
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

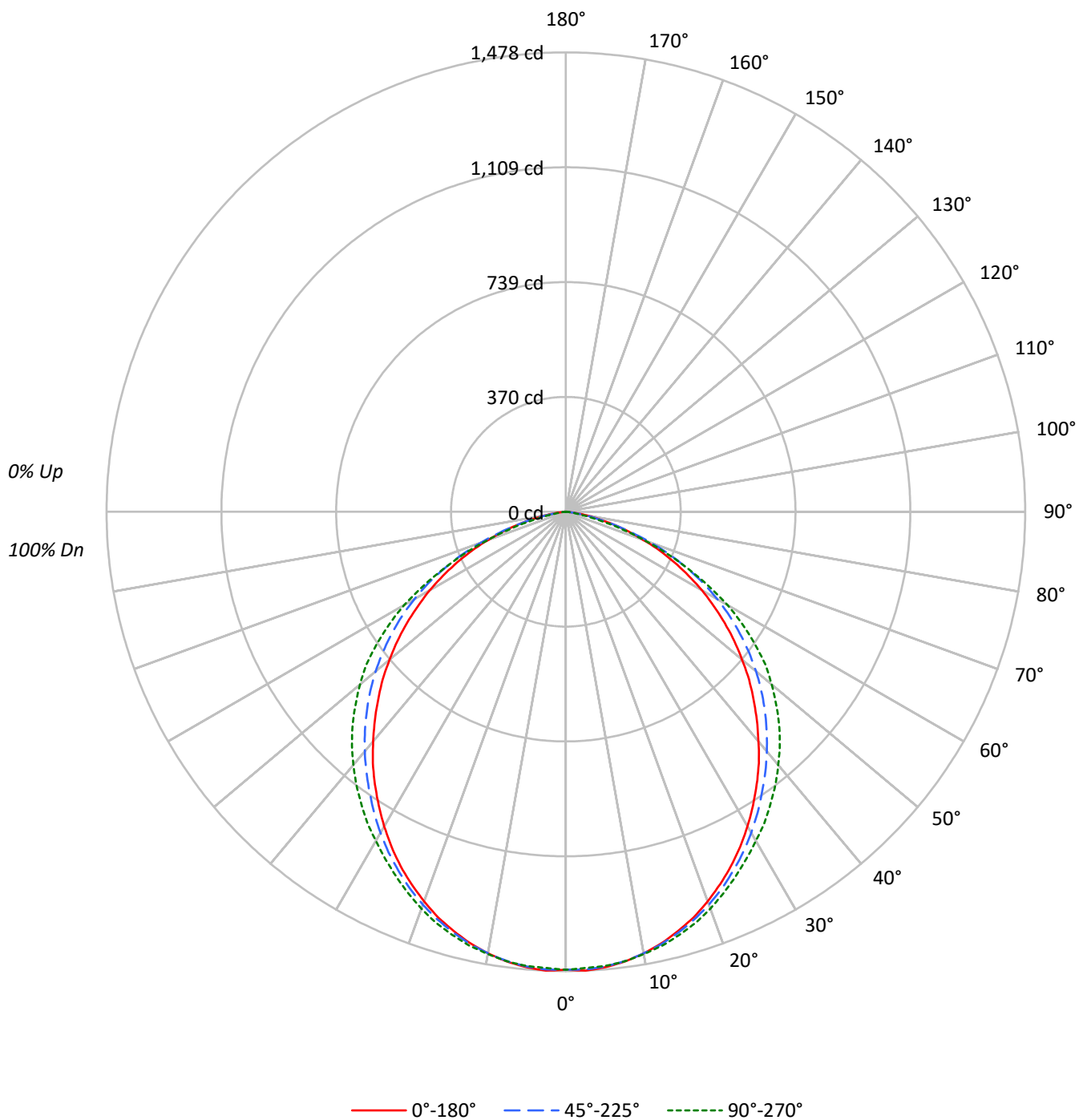
Lumens per Lamp: N/A
Luminaire Lumens: 3720.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	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°	3966	3966	3966
5°	3973	3966	3962
10°	3942	3942	3948
15°	3889	3903	3927
20°	3820	3852	3892
25°	3735	3784	3841
30°	3632	3707	3800
35°	3518	3617	3771
40°	3387	3535	3735
45°	3249	3447	3694
50°	3099	3344	3620
55°	2928	3210	3484
60°	2721	3030	3235
65°	2453	2753	2769
70°	2094	2291	2142
75°	1645	1659	1337
80°	1069	854	513
85°	494	324	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.7
10°-20°	394.8	10.6
20°-30°	586.4	15.8
30°-40°	690.7	18.6
40°-50°	699.8	18.8
50°-60°	609.1	16.4
60°-70°	415.1	11.2
70°-80°	165.9	4.5
80°-90°	19.0	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°	1120.4	30.1
0°-40°	1811.1	48.7
0°-60°	3120.0	83.9
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1471	1462	1468	1466	1467	139
15°	1396	1390	1401	1406	1410	394
25°	1258	1259	1275	1285	1294	579
35°	1071	1076	1101	1130	1148	669
45°	854	864	906	948	971	659
55°	624	638	684	727	743	557
65°	385	403	432	433	435	382
75°	158	168	160	137	129	170
85°	16	14	10	10	8	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1477.8	1468.3	1473.7	1472.7	1468.7
5°	1470.7	1462.2	1468.3	1466.3	1466.7
7.5°	1459.2	1451.2	1457.7	1457.2	1458.7
10°	1442.7	1434.7	1442.7	1443.1	1444.7
12.5°	1422.1	1415.2	1424.7	1426.7	1430.2
15°	1396.1	1390.2	1401.1	1406.2	1409.6
17.5°	1368.2	1364.2	1375.1	1381.7	1387.2
20°	1334.1	1332.1	1345.2	1351.6	1359.1
22.5°	1297.0	1296.0	1311.6	1319.6	1327.1
25°	1258.0	1258.6	1274.6	1285.1	1293.6
27.5°	1215.0	1216.0	1235.5	1248.0	1258.6
30°	1169.0	1171.5	1193.0	1210.0	1223.0
32.5°	1120.4	1124.9	1147.9	1171.5	1188.0
35°	1070.9	1075.9	1100.9	1129.9	1147.9
37.5°	1019.9	1025.4	1054.4	1088.4	1107.5
40°	964.3	972.8	1006.4	1043.9	1063.3
42.5°	909.7	919.2	956.8	997.9	1018.9
45°	853.7	864.3	905.7	948.3	970.8
47.5°	799.7	808.6	853.2	897.8	917.8
50°	740.2	752.1	798.7	843.2	864.7
52.5°	683.1	694.6	742.1	787.6	809.7
55°	624.0	637.5	684.1	727.1	742.6
57.5°	564.5	580.0	625.0	660.5	674.0
60°	505.5	520.9	563.0	591.0	601.0
62.5°	445.8	461.9	498.9	516.0	518.0
65°	385.3	403.4	432.3	432.9	434.9
67.5°	327.8	342.8	363.8	357.8	354.8
70°	266.2	282.7	291.2	279.3	272.2
72.5°	211.7	223.6	222.2	204.6	196.2
75°	158.2	167.7	159.6	137.1	128.6
77.5°	109.6	117.6	101.5	80.5	72.1
80°	69.0	72.6	55.1	39.0	33.1
82.5°	37.1	36.5	23.6	19.5	18.0
85°	16.0	14.5	10.5	9.5	8.5
87.5°	5.5	5.0	4.0	3.5	3.0
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	15.70	17.28	16.07	17.60	17.91	16.66	18.25	17.03	18.56	18.87
	3H	17.12	18.54	17.50	18.87	19.23	17.85	19.27	18.23	19.60	19.96
	4H	17.52	18.85	17.92	19.20	19.57	18.07	19.40	18.47	19.75	20.13
	6H	17.69	18.92	18.10	19.29	19.68	18.09	19.32	18.50	19.68	20.07
	8H	17.70	18.88	18.13	19.27	19.67	18.06	19.23	18.49	19.62	20.02
	12H	17.69	18.82	18.12	19.20	19.63	18.04	19.16	18.47	19.54	19.97
4H	2H	16.36	17.70	16.76	18.04	18.42	17.14	18.47	17.54	18.82	19.19
	3H	17.94	19.05	18.35	19.44	19.84	18.49	19.59	18.90	19.99	20.39
	4H	18.42	19.41	18.85	19.82	20.26	18.76	19.75	19.19	20.16	20.60
	6H	18.66	19.52	19.11	19.96	20.42	18.81	19.67	19.26	20.11	20.57
	8H	18.68	19.48	19.14	19.93	20.39	18.78	19.58	19.24	20.03	20.49
	12H	18.68	19.40	19.16	19.87	20.34	18.76	19.48	19.24	19.96	20.43
8H	4H	18.55	19.36	19.02	19.80	20.27	18.87	19.67	19.33	20.12	20.58
	6H	18.83	19.49	19.33	19.98	20.46	18.93	19.59	19.42	20.08	20.56
	8H	18.87	19.46	19.38	19.97	20.46	18.91	19.50	19.42	20.01	20.49
	12H	18.88	19.40	19.39	19.89	20.46	18.89	19.41	19.40	19.90	20.47
12H	4H	18.54	19.25	19.02	19.73	20.20	18.86	19.58	19.34	20.05	20.52
	6H	18.80	19.39	19.31	19.90	20.39	18.91	19.50	19.42	20.01	20.49
	8H	18.86	19.38	19.37	19.88	20.44	18.91	19.43	19.41	19.92	20.48