

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: P1498284

Luminaire Tested: MAE-G-2-120-1STD-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498284
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-50-90
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

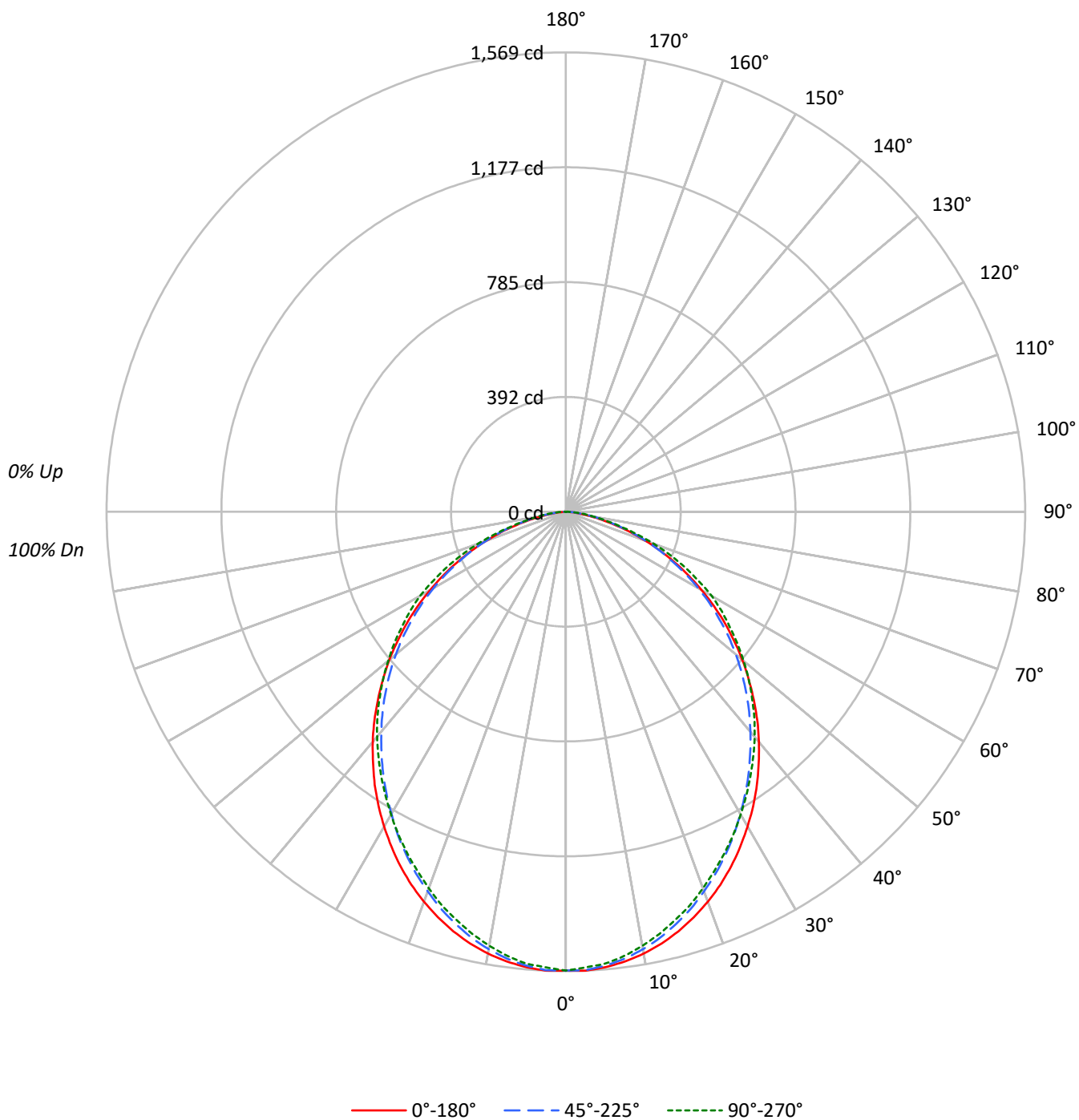
Lumens per Lamp: N/A
Luminaire Lumens: 3768.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	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°	4217	4217	4217
5°	4218	4203	4185
10°	4187	4146	4113
15°	4133	4059	4021
20°	4059	3951	3920
25°	3967	3834	3814
30°	3857	3702	3710
35°	3739	3577	3614
40°	3605	3445	3524
45°	3454	3314	3423
50°	3295	3173	3318
55°	3110	3007	3202
60°	2882	2814	3094
65°	2619	2560	2852
70°	2269	2287	2504
75°	1806	1919	1997
80°	1244	1444	1528
85°	692	1078	1374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3454 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	3.9
10°-20°	411.0	10.9
20°-30°	598.4	15.9
30°-40°	690.1	18.3
40°-50°	684.4	18.2
50°-60°	586.8	15.6
60°-70°	412.4	10.9
70°-80°	196.5	5.2
80°-90°	41.3	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°	1156.6	30.7
0°-40°	1846.7	49.0
0°-60°	3117.9	82.7
0°-90°	3768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1562	1560	1556	1546	1549	148
15°	1484	1476	1457	1441	1443	418
25°	1336	1319	1291	1280	1285	615
35°	1138	1115	1089	1090	1100	711
45°	908	888	871	887	900	700
55°	663	644	641	665	683	592
65°	411	397	402	434	448	407
75°	174	168	185	194	192	188
85°	22	27	35	42	44	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.0	1567.0	1567.0	1567.0	1567.0
2.5°	1568.9	1570.1	1567.0	1555.8	1557.4
5°	1561.6	1560.1	1555.9	1545.9	1549.3
7.5°	1549.0	1547.0	1539.4	1527.8	1530.1
10°	1532.3	1528.4	1517.3	1502.9	1505.1
12.5°	1510.8	1505.8	1490.2	1474.2	1476.8
15°	1483.6	1476.3	1456.9	1440.7	1443.4
17.5°	1452.5	1444.6	1421.3	1403.9	1409.2
20°	1417.4	1406.3	1379.8	1363.8	1368.7
22.5°	1378.8	1364.8	1337.2	1322.3	1326.6
25°	1336.2	1319.0	1291.3	1279.5	1284.7
27.5°	1290.1	1271.4	1243.5	1233.2	1240.6
30°	1241.2	1221.2	1191.5	1186.2	1194.1
32.5°	1191.0	1169.9	1140.8	1139.5	1147.5
35°	1138.3	1115.2	1089.0	1090.3	1100.1
37.5°	1081.9	1060.0	1034.3	1042.7	1052.0
40°	1026.2	1003.4	980.8	992.4	1003.2
42.5°	968.2	946.6	926.5	940.4	953.0
45°	907.7	887.5	870.8	887.3	899.5
47.5°	847.1	827.0	814.8	833.1	847.1
50°	787.0	767.9	757.9	778.9	792.5
52.5°	724.1	705.9	700.5	722.2	738.8
55°	662.8	644.2	640.9	665.4	682.6
57.5°	599.7	585.2	582.5	610.0	630.8
60°	535.5	520.9	522.9	555.8	574.9
62.5°	472.9	458.5	461.6	498.3	511.2
65°	411.3	396.9	402.0	434.0	447.9
67.5°	350.6	337.1	347.4	376.7	385.6
70°	288.4	276.5	290.7	314.6	318.3
72.5°	230.3	220.0	237.6	253.0	253.0
75°	173.7	167.7	184.6	193.5	192.1
77.5°	124.2	121.1	135.7	140.7	139.7
80°	80.3	82.2	93.2	96.6	98.6
82.5°	46.8	50.6	59.0	67.9	69.9
85°	22.4	27.0	34.9	41.8	44.5
87.5°	7.8	10.8	14.5	16.0	15.6
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	15.78	17.36	16.15	17.68	17.99	16.09	17.67	16.46	17.99	18.30
	3H	17.22	18.64	17.60	18.97	19.33	17.69	19.12	18.07	19.44	19.81
	4H	17.64	18.98	18.04	19.33	19.70	18.16	19.50	18.56	19.84	20.22
	6H	17.86	19.09	18.27	19.46	19.85	18.41	19.65	18.83	20.02	20.41
	8H	17.89	19.07	18.31	19.46	19.86	18.49	19.67	18.91	20.05	20.45
	12H	17.89	19.02	18.32	19.40	19.83	18.53	19.66	18.96	20.05	20.47
4H	2H	16.31	17.65	16.71	17.99	18.37	16.56	17.90	16.96	18.25	18.63
	3H	17.93	19.04	18.34	19.44	19.84	18.37	19.48	18.78	19.88	20.28
	4H	18.44	19.44	18.87	19.85	20.29	18.94	19.94	19.37	20.36	20.79
	6H	18.73	19.60	19.19	20.04	20.50	19.29	20.16	19.75	20.61	21.06
	8H	18.78	19.60	19.24	20.04	20.51	19.39	20.21	19.86	20.65	21.12
	12H	18.80	19.53	19.29	20.01	20.48	19.47	20.20	19.96	20.68	21.15
8H	4H	18.65	19.47	19.12	19.91	20.38	19.11	19.93	19.57	20.37	20.84
	6H	19.01	19.69	19.51	20.18	20.65	19.53	20.21	20.03	20.70	21.17
	8H	19.10	19.70	19.61	20.21	20.69	19.69	20.29	20.20	20.80	21.28
	12H	19.15	19.68	19.65	20.17	20.73	19.82	20.35	20.33	20.84	21.41
12H	4H	18.66	19.39	19.14	19.87	20.34	19.11	19.84	19.59	20.32	20.79
	6H	19.03	19.63	19.54	20.14	20.63	19.54	20.14	20.05	20.65	21.14
	8H	19.15	19.68	19.66	20.17	20.74	19.73	20.26	20.24	20.75	21.32