

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: P1498317

Luminaire Tested: MAE-G-2-120-2HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498317
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-2-120-2HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

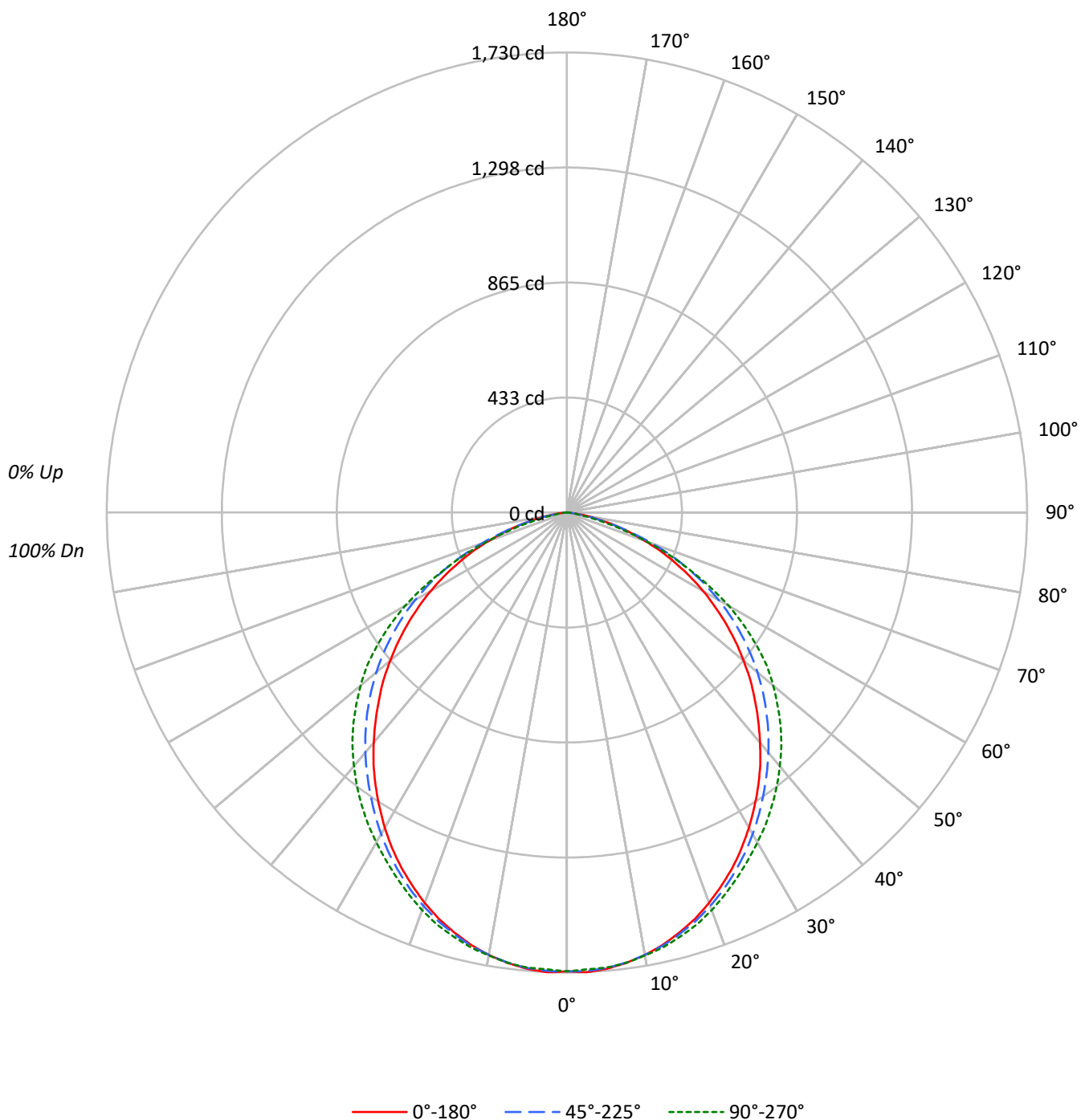
Lumens per Lamp: N/A
Luminaire Lumens: 4356.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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°	4644	4644	4644
5°	4652	4644	4639
10°	4616	4616	4623
15°	4554	4571	4598
20°	4474	4511	4558
25°	4374	4431	4498
30°	4253	4341	4450
35°	4119	4235	4416
40°	3967	4140	4374
45°	3804	4036	4326
50°	3628	3915	4239
55°	3428	3758	4079
60°	3186	3548	3788
65°	2873	3224	3242
70°	2452	2683	2507
75°	1926	1943	1566
80°	1252	1000	600
85°	580	380	309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4326 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.7
10°-20°	462.3	10.6
20°-30°	686.7	15.8
30°-40°	808.8	18.6
40°-50°	819.4	18.8
50°-60°	713.2	16.4
60°-70°	486.0	11.2
70°-80°	194.3	4.5
80°-90°	22.2	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°	1311.9	30.1
0°-40°	2120.8	48.7
0°-60°	3653.5	83.9
0°-90°	4356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1722	1712	1719	1717	1718	163
15°	1635	1628	1641	1647	1651	461
25°	1473	1474	1492	1505	1515	678
35°	1254	1260	1289	1323	1344	784
45°	1000	1012	1061	1110	1137	772
55°	731	746	801	851	870	653
65°	451	472	506	507	509	447
75°	185	196	187	161	151	199
85°	19	17	12	11	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.6	1725.6	1725.6	1725.6	1725.6
2.5°	1730.4	1719.3	1725.6	1724.5	1719.8
5°	1722.1	1712.2	1719.3	1716.9	1717.5
7.5°	1708.7	1699.3	1707.0	1706.3	1708.1
10°	1689.4	1680.0	1689.4	1689.9	1691.7
12.5°	1665.3	1657.1	1668.3	1670.6	1674.7
15°	1634.8	1627.8	1640.7	1646.6	1650.6
17.5°	1602.1	1597.4	1610.2	1617.9	1624.3
20°	1562.2	1559.9	1575.1	1582.6	1591.5
22.5°	1518.8	1517.6	1535.9	1545.2	1554.0
25°	1473.1	1473.7	1492.5	1504.8	1514.8
27.5°	1422.7	1423.9	1446.8	1461.4	1473.7
30°	1368.8	1371.8	1396.9	1416.9	1432.2
32.5°	1312.0	1317.3	1344.2	1371.8	1391.1
35°	1253.9	1259.9	1289.2	1323.1	1344.2
37.5°	1194.2	1200.7	1234.6	1274.5	1296.8
40°	1129.2	1139.1	1178.4	1222.3	1245.1
42.5°	1065.2	1076.4	1120.4	1168.5	1193.1
45°	999.7	1012.0	1060.6	1110.4	1136.7
47.5°	936.4	946.9	999.1	1051.3	1074.7
50°	866.7	880.7	935.2	987.4	1012.5
52.5°	799.9	813.3	869.0	922.3	948.2
55°	730.7	746.5	801.0	851.4	869.5
57.5°	661.0	679.2	731.9	773.4	789.2
60°	591.9	610.0	659.2	692.0	703.8
62.5°	522.1	540.8	584.2	604.2	606.5
65°	451.2	472.3	506.3	506.9	509.2
67.5°	383.9	401.4	426.0	419.0	415.5
70°	311.7	331.0	341.0	327.0	318.7
72.5°	247.9	261.9	260.2	239.6	229.8
75°	185.2	196.3	186.9	160.6	150.6
77.5°	128.3	137.7	118.9	94.3	84.4
80°	80.8	85.0	64.5	45.7	38.7
82.5°	43.4	42.7	27.6	22.8	21.1
85°	18.8	17.0	12.3	11.1	10.0
87.5°	6.5	5.8	4.7	4.1	3.5
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	16.25	17.83	16.62	18.15	18.46	17.21	18.79	17.58	19.11	19.42
	3H	17.67	19.09	18.05	19.42	19.78	18.40	19.82	18.78	20.15	20.51
	4H	18.07	19.40	18.46	19.75	20.12	18.62	19.95	19.02	20.30	20.67
	6H	18.24	19.47	18.65	19.84	20.23	18.63	19.87	19.05	20.23	20.62
	8H	18.25	19.43	18.68	19.81	20.21	18.61	19.78	19.04	20.17	20.57
	12H	18.24	19.36	18.67	19.75	20.18	18.59	19.71	19.02	20.09	20.52
4H	2H	16.91	18.24	17.31	18.59	18.97	17.69	19.02	18.08	19.37	19.74
	3H	18.49	19.59	18.90	19.99	20.39	19.04	20.14	19.45	20.54	20.94
	4H	18.97	19.96	19.40	20.37	20.81	19.30	20.30	19.74	20.71	21.15
	6H	19.21	20.07	19.66	20.51	20.97	19.35	20.22	19.81	20.66	21.12
	8H	19.23	20.03	19.69	20.47	20.94	19.33	20.13	19.79	20.58	21.04
	12H	19.23	19.94	19.71	20.42	20.89	19.31	20.03	19.79	20.50	20.97
8H	4H	19.10	19.91	19.56	20.35	20.82	19.42	20.22	19.88	20.66	21.13
	6H	19.38	20.04	19.87	20.53	21.01	19.48	20.14	19.97	20.63	21.11
	8H	19.42	20.01	19.93	20.52	21.00	19.45	20.05	19.97	20.55	21.04
	12H	19.43	19.95	19.94	20.44	21.00	19.44	19.96	19.95	20.45	21.02
12H	4H	19.08	19.80	19.57	20.28	20.75	19.41	20.12	19.89	20.60	21.07
	6H	19.35	19.94	19.86	20.45	20.94	19.45	20.05	19.97	20.56	21.04
	8H	19.41	19.93	19.92	20.42	20.99	19.45	19.97	19.96	20.47	21.03