

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: P1498498

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498498
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-2-120-2LO-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

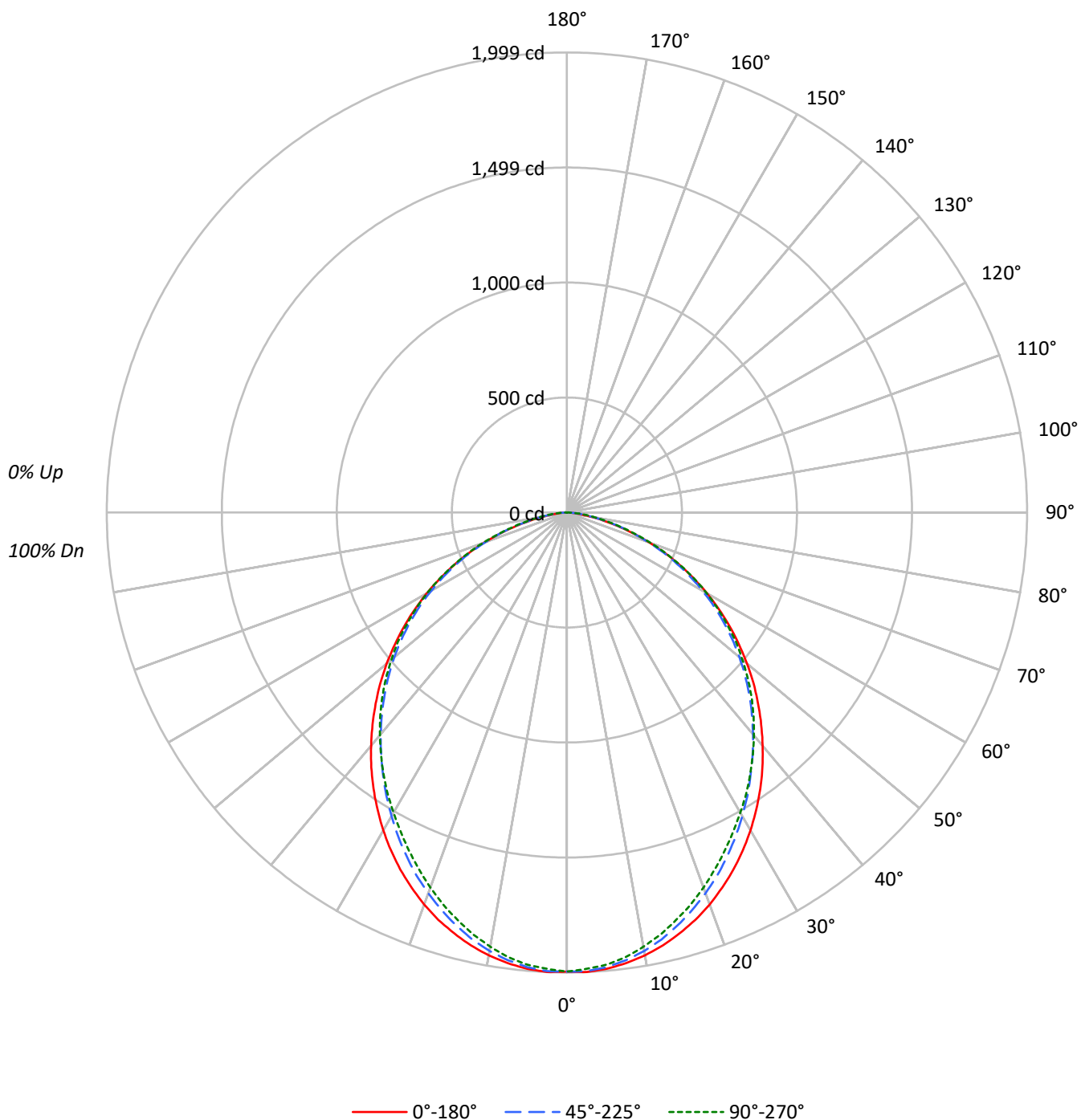
Lumens per Lamp: N/A
Luminaire Lumens: 4815.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5368	5368	5368
5°	5376	5356	5328
10°	5339	5286	5235
15°	5274	5175	5107
20°	5190	5041	4966
25°	5083	4893	4816
30°	4955	4735	4680
35°	4812	4573	4560
40°	4647	4418	4440
45°	4470	4262	4315
50°	4276	4095	4165
55°	4053	3901	3988
60°	3784	3662	3775
65°	3447	3357	3471
70°	2984	2965	3064
75°	2385	2463	2527
80°	1629	1802	1912
85°	855	1281	1680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.9
10°-20°	523.4	10.9
20°-30°	762.4	15.8
30°-40°	881.0	18.3
40°-50°	876.3	18.2
50°-60°	752.9	15.6
60°-70°	528.5	11.0
70°-80°	252.0	5.2
80°-90°	51.0	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°	1473.2	30.6
0°-40°	2354.2	48.9
0°-60°	3983.5	82.7
0°-90°	4815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1990	1984	1983	1969	1972	189
15°	1893	1879	1858	1833	1833	534
25°	1712	1688	1648	1622	1622	788
35°	1465	1433	1392	1382	1388	915
45°	1175	1144	1120	1126	1134	906
55°	864	839	831	844	850	771
65°	541	526	527	539	545	535
75°	229	224	237	241	243	247
85°	28	32	42	50	54	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.9	1994.9	1994.9	1994.9	1994.9
2.5°	1998.6	1993.5	1994.9	1984.5	1985.0
5°	1990.1	1983.8	1982.9	1969.4	1972.5
7.5°	1974.8	1967.0	1962.3	1946.6	1949.1
10°	1953.8	1943.7	1934.4	1914.8	1915.9
12.5°	1926.7	1914.7	1899.8	1876.7	1878.2
15°	1893.2	1879.0	1857.7	1832.6	1833.1
17.5°	1856.1	1839.9	1811.3	1784.3	1786.7
20°	1812.5	1793.9	1760.2	1732.2	1734.3
22.5°	1763.8	1742.4	1706.8	1678.4	1678.5
25°	1711.8	1687.7	1648.1	1621.5	1621.9
27.5°	1655.4	1628.4	1587.2	1562.5	1564.1
30°	1594.8	1566.0	1523.8	1503.0	1506.0
32.5°	1531.0	1500.9	1459.3	1443.9	1449.2
35°	1464.8	1432.6	1391.9	1382.1	1388.0
37.5°	1395.6	1363.8	1325.3	1320.9	1327.0
40°	1323.0	1292.2	1257.8	1257.0	1264.0
42.5°	1249.5	1219.4	1189.6	1192.7	1200.1
45°	1174.6	1144.3	1120.0	1126.0	1133.9
47.5°	1099.6	1069.6	1050.2	1058.6	1065.7
50°	1021.5	993.5	978.2	988.3	994.8
52.5°	941.7	915.8	905.3	917.0	926.2
55°	863.8	838.7	831.4	843.6	850.1
57.5°	783.3	762.0	757.1	769.0	775.9
60°	703.0	683.1	680.5	693.7	701.4
62.5°	622.0	603.8	604.3	617.2	623.7
65°	541.3	525.9	527.2	538.7	545.1
67.5°	461.3	447.4	452.1	465.1	468.6
70°	379.2	368.3	376.9	387.2	389.4
72.5°	303.1	293.7	304.8	312.6	313.3
75°	229.4	223.5	236.9	241.4	243.0
77.5°	162.4	161.5	172.2	176.8	178.9
80°	105.1	108.5	116.3	122.5	123.4
82.5°	59.7	63.9	71.6	82.2	86.3
85°	27.7	32.1	41.5	50.5	54.4
87.5°	9.3	12.6	17.5	19.1	18.2
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	16.77	18.35	17.13	18.67	18.98	16.81	18.39	17.18	18.71	19.02
	3H	18.24	19.67	18.62	20.00	20.36	18.35	19.78	18.73	20.10	20.47
	4H	18.68	20.01	19.07	20.36	20.74	18.82	20.16	19.22	20.51	20.89
	6H	18.89	20.13	19.30	20.49	20.89	19.09	20.33	19.50	20.69	21.09
	8H	18.92	20.10	19.35	20.49	20.89	19.16	20.34	19.59	20.73	21.13
	12H	18.92	20.05	19.35	20.43	20.86	19.21	20.34	19.64	20.72	21.15
4H	2H	17.30	18.64	17.70	18.99	19.37	17.34	18.68	17.74	19.03	19.40
	3H	18.96	20.07	19.37	20.47	20.87	19.07	20.19	19.48	20.58	20.99
	4H	19.48	20.48	19.91	20.90	21.33	19.64	20.65	20.08	21.06	21.50
	6H	19.78	20.65	20.23	21.09	21.55	20.00	20.88	20.46	21.32	21.78
	8H	19.82	20.64	20.29	21.08	21.55	20.10	20.92	20.56	21.36	21.83
	12H	19.84	20.57	20.32	21.05	21.52	20.18	20.91	20.66	21.39	21.86
8H	4H	19.68	20.50	20.14	20.94	21.40	19.83	20.65	20.29	21.09	21.55
	6H	20.04	20.71	20.53	21.20	21.68	20.26	20.93	20.76	21.42	21.90
	8H	20.12	20.72	20.63	21.23	21.71	20.40	21.01	20.92	21.52	22.00
	12H	20.16	20.69	20.67	21.18	21.74	20.53	21.06	21.04	21.55	22.12
12H	4H	19.69	20.42	20.17	20.89	21.36	19.83	20.56	20.31	21.04	21.51
	6H	20.05	20.65	20.56	21.16	21.65	20.26	20.87	20.77	21.38	21.86
	8H	20.16	20.69	20.67	21.19	21.75	20.45	20.98	20.95	21.47	22.03