

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: P1498477

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498477
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-LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

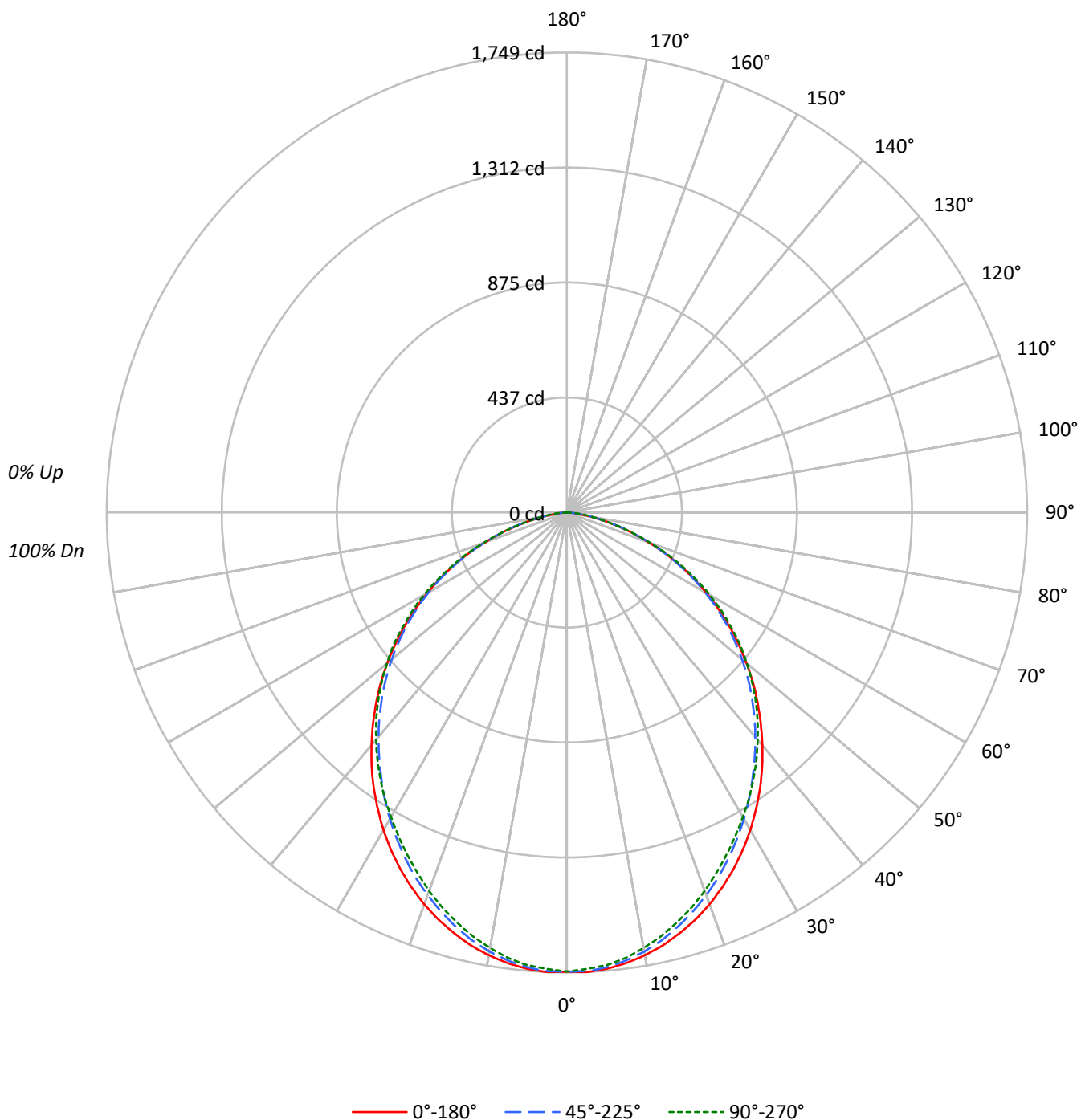
Lumens per Lamp: N/A
Luminaire Lumens: 4241.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	30	10	50	30	10
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	81	98	90	85	80	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	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	54	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°	4697	4697	4697
5°	4704	4688	4666
10°	4671	4631	4594
15°	4613	4542	4495
20°	4539	4432	4384
25°	4444	4311	4263
30°	4331	4179	4154
35°	4204	4042	4059
40°	4058	3913	3964
45°	3902	3781	3863
50°	3731	3638	3738
55°	3534	3469	3582
60°	3298	3260	3380
65°	3000	2984	3072
70°	2592	2612	2659
75°	2066	2127	2119
80°	1401	1494	1517
85°	726	1013	1300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.9
10°-20°	459.3	10.8
20°-30°	671.1	15.8
30°-40°	777.7	18.3
40°-50°	775.8	18.3
50°-60°	667.9	15.7
60°-70°	466.7	11.0
70°-80°	217.0	5.1
80°-90°	41.4	1.0
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°	1294.5	30.5
0°-40°	2072.2	48.9
0°-60°	3516.0	82.9
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1741	1735	1736	1725	1727	165
15°	1656	1644	1630	1612	1613	467
25°	1497	1479	1452	1434	1436	689
35°	1280	1256	1230	1228	1236	800
45°	1025	1004	994	1005	1015	791
55°	753	737	740	756	764	673
65°	471	463	469	477	482	466
75°	199	196	205	204	204	214
85°	24	26	33	39	42	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.4	1745.4	1745.4	1745.4	1745.4
2.5°	1748.9	1743.4	1745.4	1737.4	1737.2
5°	1741.3	1735.1	1735.5	1725.1	1727.4
7.5°	1727.9	1720.6	1718.3	1706.4	1708.6
10°	1709.3	1700.4	1694.8	1680.2	1681.3
12.5°	1685.5	1675.3	1665.9	1648.9	1650.6
15°	1656.0	1644.3	1630.4	1612.5	1613.4
17.5°	1623.4	1610.7	1591.2	1572.1	1574.9
20°	1584.9	1570.7	1547.8	1528.0	1530.9
22.5°	1542.2	1526.0	1502.1	1482.3	1483.7
25°	1496.6	1478.6	1451.9	1433.8	1435.6
27.5°	1447.0	1427.0	1399.6	1383.3	1386.4
30°	1393.7	1372.7	1344.9	1332.3	1336.8
32.5°	1337.7	1315.9	1288.9	1281.5	1288.3
35°	1279.6	1256.5	1230.4	1228.1	1235.7
37.5°	1219.1	1196.4	1172.6	1175.2	1183.1
40°	1155.3	1133.7	1113.9	1119.8	1128.3
42.5°	1090.9	1070.0	1054.4	1063.7	1072.9
45°	1025.2	1004.5	993.5	1005.3	1015.1
47.5°	959.9	939.0	932.3	946.2	955.0
50°	891.3	872.4	869.0	884.3	892.8
52.5°	821.8	804.4	804.8	821.4	832.1
55°	753.3	736.9	739.5	756.1	763.6
57.5°	682.9	669.7	673.8	688.8	696.3
60°	612.7	600.5	605.8	620.5	628.0
62.5°	541.8	531.0	537.8	550.4	555.6
65°	471.1	462.7	468.7	477.4	482.5
67.5°	401.4	393.5	400.7	409.4	411.4
70°	329.4	324.1	332.0	337.6	338.0
72.5°	263.1	258.1	266.1	268.9	268.0
75°	198.7	196.0	204.6	204.1	203.8
77.5°	140.3	141.0	146.2	146.0	146.2
80°	90.4	93.6	96.4	98.3	97.9
82.5°	51.0	54.0	57.6	64.8	67.6
85°	23.5	26.5	32.8	39.3	42.1
87.5°	7.9	10.3	13.8	14.9	14.1
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	16.30	17.89	16.67	18.20	18.51	16.49	18.07	16.85	18.39	18.70
	3H	17.77	19.19	18.15	19.52	19.88	17.97	19.39	18.35	19.72	20.08
	4H	18.20	19.53	18.59	19.88	20.26	18.40	19.73	18.80	20.08	20.46
	6H	18.40	19.64	18.82	20.01	20.40	18.62	19.85	19.03	20.22	20.61
	8H	18.43	19.61	18.86	20.00	20.40	18.67	19.85	19.09	20.24	20.63
	12H	18.43	19.56	18.86	19.94	20.37	18.70	19.83	19.13	20.21	20.64
4H	2H	16.86	18.19	17.26	18.54	18.92	17.01	18.35	17.41	18.69	19.07
	3H	18.50	19.61	18.91	20.01	20.41	18.68	19.79	19.09	20.19	20.59
	4H	19.01	20.01	19.44	20.43	20.87	19.20	20.20	19.63	20.61	21.05
	6H	19.30	20.17	19.76	20.61	21.07	19.50	20.37	19.95	20.81	21.27
	8H	19.34	20.16	19.81	20.60	21.07	19.57	20.39	20.03	20.83	21.30
	12H	19.36	20.09	19.84	20.56	21.03	19.63	20.36	20.11	20.83	21.30
8H	4H	19.20	20.02	19.67	20.46	20.93	19.37	20.18	19.83	20.63	21.09
	6H	19.55	20.22	20.04	20.71	21.19	19.73	20.41	20.23	20.89	21.37
	8H	19.62	20.22	20.13	20.73	21.22	19.84	20.45	20.36	20.95	21.44
	12H	19.66	20.19	20.17	20.68	21.24	19.94	20.47	20.45	20.96	21.53
12H	4H	19.20	19.93	19.69	20.41	20.88	19.37	20.10	19.85	20.57	21.04
	6H	19.55	20.15	20.06	20.66	21.15	19.73	20.33	20.24	20.84	21.33
	8H	19.66	20.19	20.17	20.68	21.24	19.88	20.41	20.39	20.90	21.46