

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: P1499272

Luminaire Tested: MAE-G-4-120-2LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499272
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-4-120-2LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

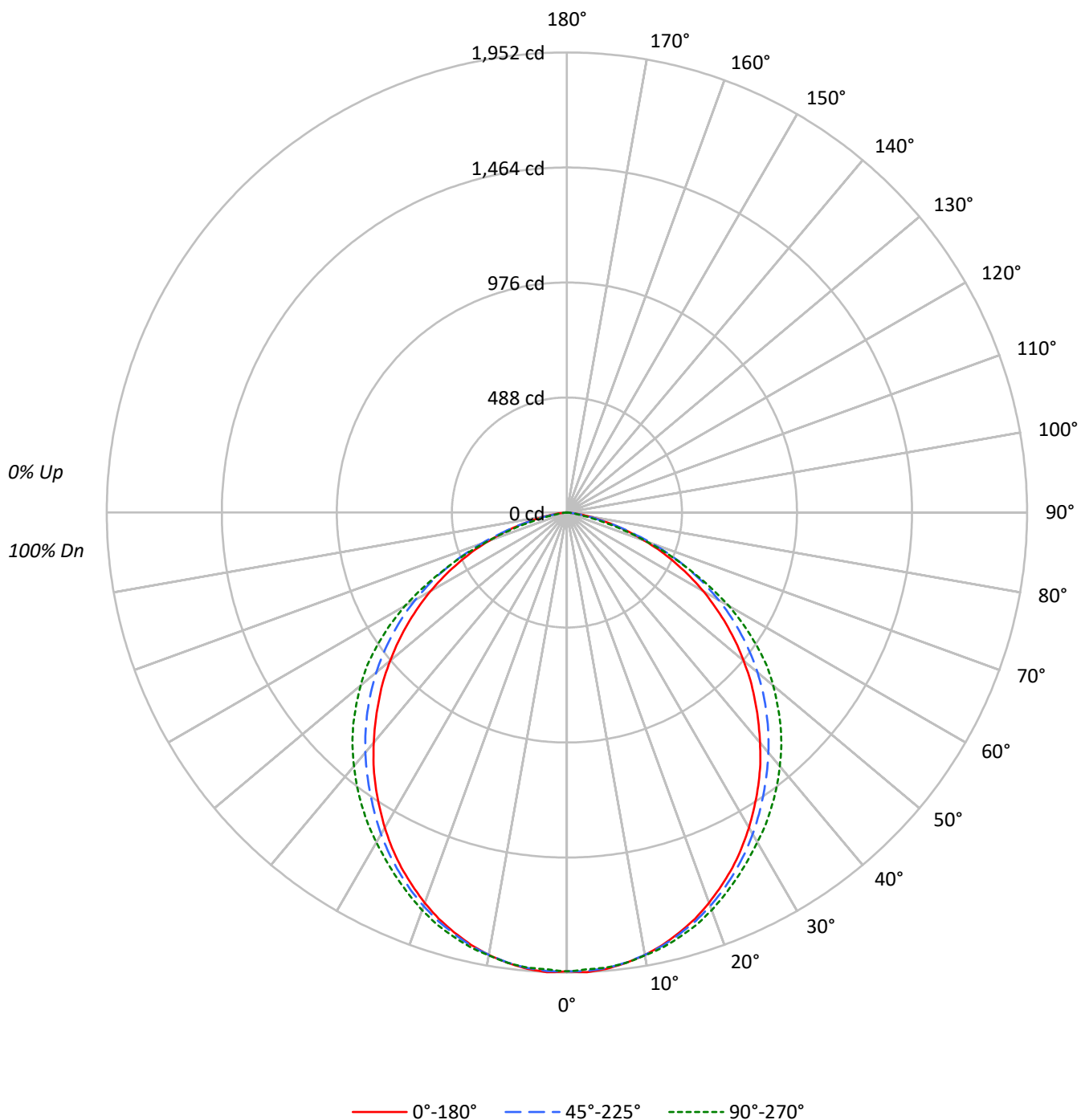
Lumens per Lamp: N/A
Luminaire Lumens: 4915.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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°	2620	2620	2620
5°	2624	2620	2617
10°	2604	2604	2608
15°	2569	2579	2594
20°	2524	2545	2571
25°	2468	2500	2537
30°	2400	2449	2511
35°	2324	2389	2491
40°	2238	2336	2468
45°	2146	2277	2441
50°	2047	2209	2391
55°	1934	2120	2301
60°	1797	2002	2137
65°	1621	1819	1829
70°	1384	1514	1415
75°	1087	1096	884
80°	707	564	339
85°	327	215	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.7
10°-20°	521.6	10.6
20°-30°	774.8	15.8
30°-40°	912.6	18.6
40°-50°	924.6	18.8
50°-60°	804.8	16.4
60°-70°	548.4	11.2
70°-80°	219.2	4.5
80°-90°	25.1	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°	1480.3	30.1
0°-40°	2392.9	48.7
0°-60°	4122.3	83.9
0°-90°	4915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1943	1932	1940	1937	1938	184
15°	1845	1837	1851	1858	1862	520
25°	1662	1663	1684	1698	1709	765
35°	1415	1422	1455	1493	1517	884
45°	1128	1142	1197	1253	1283	871
55°	824	842	904	961	981	737
65°	509	533	571	572	575	505
75°	209	222	211	181	170	225
85°	21	19	14	13	11	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.1	1947.1	1947.1	1947.1	1947.1
2.5°	1952.5	1939.9	1947.1	1945.8	1940.5
5°	1943.1	1931.9	1939.9	1937.3	1937.9
7.5°	1927.9	1917.4	1926.0	1925.3	1927.3
10°	1906.2	1895.6	1906.2	1906.7	1908.8
12.5°	1879.0	1869.8	1882.3	1885.0	1889.6
15°	1844.6	1836.7	1851.2	1857.9	1862.5
17.5°	1807.7	1802.4	1816.9	1825.5	1832.8
20°	1762.7	1760.0	1777.3	1785.7	1795.7
22.5°	1713.7	1712.4	1733.0	1743.5	1753.4
25°	1662.1	1662.8	1684.0	1697.9	1709.2
27.5°	1605.3	1606.6	1632.4	1649.0	1662.8
30°	1544.5	1547.8	1576.2	1598.7	1615.9
32.5°	1480.3	1486.3	1516.7	1547.8	1569.6
35°	1414.9	1421.6	1454.6	1492.9	1516.7
37.5°	1347.5	1354.8	1393.1	1438.1	1463.2
40°	1274.1	1285.2	1329.7	1379.2	1404.9
42.5°	1201.9	1214.5	1264.2	1318.4	1346.2
45°	1128.0	1141.9	1196.7	1252.9	1282.6
47.5°	1056.5	1068.4	1127.3	1186.2	1212.6
50°	977.9	993.7	1055.2	1114.1	1142.5
52.5°	902.5	917.7	980.6	1040.6	1069.8
55°	824.5	842.3	903.8	960.7	981.1
57.5°	745.9	766.3	825.8	872.7	890.5
60°	667.8	688.3	743.8	780.8	794.1
62.5°	589.1	610.3	659.2	681.7	684.3
65°	509.1	532.9	571.2	572.0	574.6
67.5°	433.1	452.9	480.6	472.7	468.8
70°	351.7	373.5	384.8	369.0	359.6
72.5°	279.7	295.5	293.6	270.3	259.2
75°	209.0	221.5	210.9	181.2	170.0
77.5°	144.8	155.3	134.1	106.4	95.3
80°	91.2	95.9	72.8	51.6	43.7
82.5°	49.0	48.2	31.1	25.7	23.8
85°	21.2	19.1	13.9	12.6	11.3
87.5°	7.3	6.6	5.3	4.7	3.9
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	14.26	15.84	14.63	16.16	16.47	15.22	16.80	15.59	17.12	17.43
	3H	15.68	17.10	16.06	17.43	17.79	16.41	17.83	16.79	18.16	18.52
	4H	16.08	17.41	16.48	17.76	18.13	16.63	17.96	17.03	18.31	18.69
	6H	16.25	17.48	16.66	17.85	18.24	16.65	17.88	17.06	18.24	18.63
	8H	16.26	17.44	16.69	17.83	18.23	16.62	17.79	17.05	18.18	18.58
	12H	16.25	17.38	16.68	17.76	18.19	16.60	17.72	17.03	18.10	18.53
4H	2H	14.92	16.26	15.32	16.60	16.98	15.70	17.03	16.10	17.38	17.75
	3H	16.50	17.61	16.91	18.00	18.40	17.05	18.15	17.46	18.55	18.95
	4H	16.98	17.97	17.41	18.38	18.82	17.32	18.31	17.75	18.72	19.16
	6H	17.22	18.08	17.67	18.52	18.98	17.37	18.23	17.82	18.67	19.13
	8H	17.24	18.04	17.70	18.49	18.95	17.34	18.14	17.80	18.59	19.05
	12H	17.24	17.96	17.72	18.43	18.90	17.32	18.04	17.80	18.52	18.99
8H	4H	17.11	17.92	17.58	18.36	18.83	17.43	18.23	17.89	18.68	19.14
	6H	17.39	18.05	17.88	18.54	19.02	17.49	18.15	17.98	18.64	19.12
	8H	17.43	18.02	17.94	18.53	19.01	17.47	18.06	17.98	18.57	19.05
	12H	17.44	17.96	17.95	18.45	19.02	17.45	17.97	17.96	18.46	19.03
12H	4H	17.09	17.81	17.58	18.29	18.76	17.42	18.14	17.90	18.61	19.08
	6H	17.36	17.95	17.87	18.46	18.95	17.47	18.06	17.98	18.57	19.05
	8H	17.42	17.94	17.93	18.43	19.00	17.47	17.99	17.97	18.48	19.04