

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: P1498447

Luminaire Tested: MAE-G-2-120-2LO-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498447
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-HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

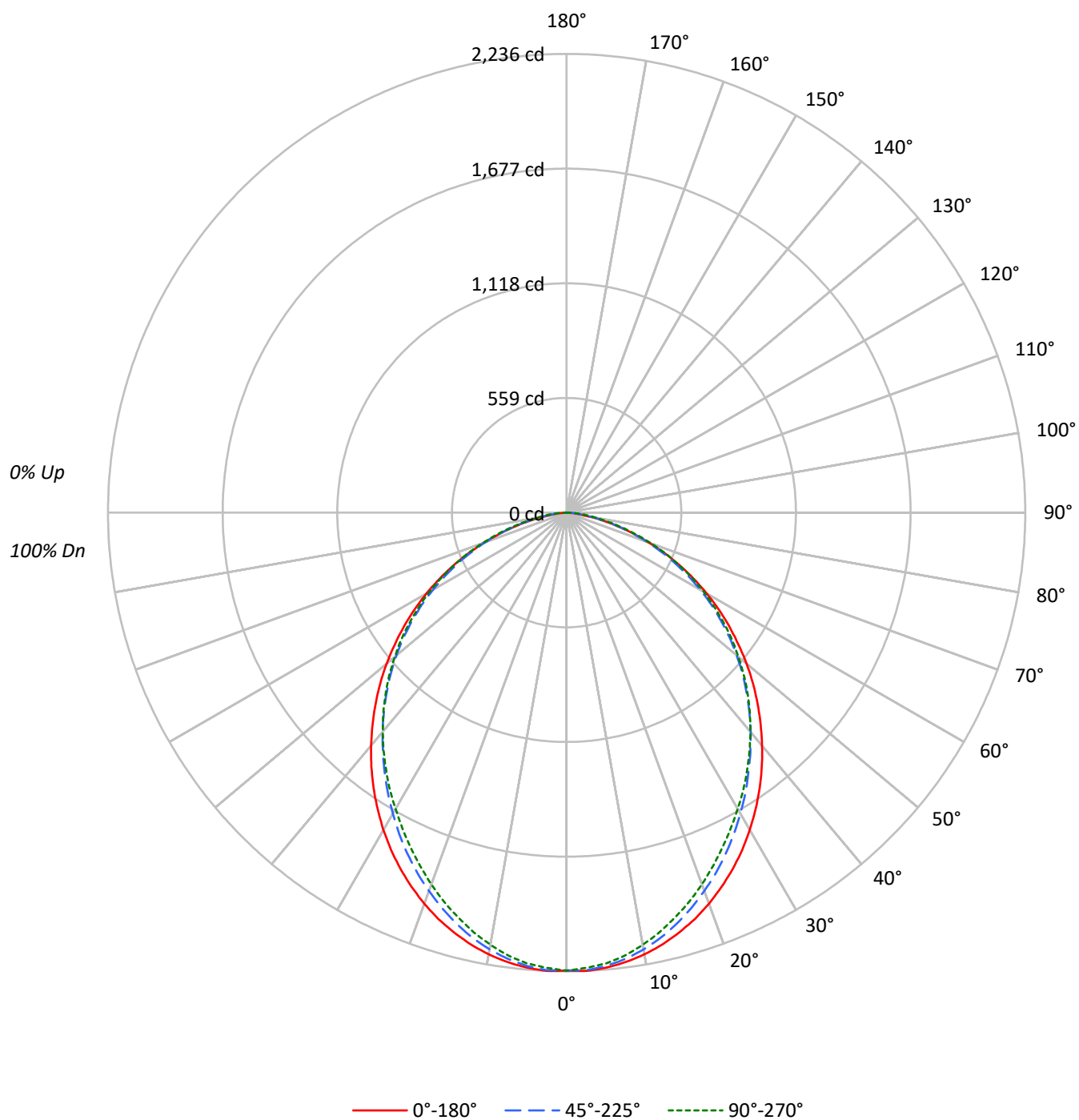
Lumens per Lamp: N/A
Luminaire Lumens: 5362.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6006	6006	6006
5°	6015	5992	5958
10°	5974	5908	5845
15°	5903	5779	5690
20°	5809	5620	5522
25°	5690	5449	5344
30°	5549	5265	5182
35°	5390	5079	5039
40°	5207	4901	4897
45°	5010	4722	4749
50°	4794	4532	4575
55°	4545	4312	4379
60°	4246	4047	4154
65°	3871	3713	3852
70°	3356	3302	3447
75°	2688	2781	2910
80°	1843	2092	2283
85°	976	1528	2035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	3.9
10°-20°	584.3	10.9
20°-30°	849.4	15.8
30°-40°	979.5	18.3
40°-50°	972.3	18.1
50°-60°	834.2	15.6
60°-70°	587.5	11.0
70°-80°	285.2	5.3
80°-90°	59.9	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°	1643.4	30.6
0°-40°	2622.9	48.9
0°-60°	4429.4	82.6
0°-90°	5362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2232	2232	2232	2232	2232	
5°	2227	2220	2218	2202	2206	211
15°	2119	2102	2074	2042	2042	597
25°	1916	1886	1835	1801	1800	882
35°	1641	1600	1546	1529	1534	1025
45°	1316	1278	1241	1242	1248	1015
55°	969	936	919	928	933	865
65°	608	586	583	597	605	601
75°	258	250	268	276	280	278
85°	32	37	50	61	66	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.0	2232.0	2232.0	2232.0	2232.0
2.5°	2236.0	2231.2	2232.0	2219.4	2220.7
5°	2226.6	2220.2	2218.1	2201.8	2205.5
7.5°	2209.6	2201.2	2194.4	2175.0	2177.9
10°	2186.2	2174.9	2162.2	2137.9	2139.0
12.5°	2156.1	2142.2	2122.3	2093.6	2094.8
15°	2118.8	2102.1	2074.2	2042.4	2042.4
17.5°	2077.2	2057.9	2021.0	1986.6	1988.6
20°	2028.6	2006.1	1962.6	1927.0	1928.3
22.5°	1974.5	1948.3	1901.8	1865.6	1864.4
25°	1916.4	1886.4	1835.3	1800.7	1799.8
27.5°	1853.5	1820.0	1766.1	1733.5	1733.9
30°	1785.9	1749.9	1694.5	1666.2	1667.7
32.5°	1714.7	1676.8	1621.8	1599.2	1603.1
35°	1640.7	1600.1	1546.0	1529.4	1533.9
37.5°	1563.3	1523.2	1471.1	1460.3	1464.8
40°	1482.3	1442.9	1395.2	1388.4	1393.9
42.5°	1400.2	1361.5	1318.8	1316.3	1322.1
45°	1316.5	1277.5	1240.8	1241.7	1247.9
47.5°	1232.3	1194.0	1163.1	1166.4	1172.0
50°	1145.2	1108.9	1082.6	1088.2	1092.7
52.5°	1055.7	1021.8	1001.5	1008.8	1016.6
55°	968.7	935.7	919.2	927.7	933.3
57.5°	878.6	849.9	836.9	845.9	852.4
60°	788.9	761.7	752.0	763.7	771.9
62.5°	698.1	673.2	667.9	681.2	688.9
65°	608.0	586.1	583.1	597.3	605.0
67.5°	518.2	498.7	501.1	518.2	523.0
70°	426.5	410.4	419.7	434.4	438.1
72.5°	341.0	327.6	341.4	354.0	356.1
75°	258.5	249.6	267.5	276.5	279.9
77.5°	183.4	180.9	196.6	205.6	209.5
80°	118.9	122.6	135.0	145.2	147.3
82.5°	67.8	73.1	84.7	98.5	103.8
85°	31.6	37.4	49.5	60.8	65.9
87.5°	10.6	14.8	21.0	23.0	22.0
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	17.16	18.74	17.52	19.06	19.37	17.10	18.68	17.46	19.00	19.31
	3H	18.64	20.07	19.02	20.39	20.75	18.68	20.11	19.06	20.44	20.80
	4H	19.08	20.42	19.48	20.76	21.14	19.19	20.53	19.59	20.88	21.25
	6H	19.30	20.54	19.71	20.90	21.29	19.49	20.73	19.90	21.10	21.49
	8H	19.33	20.51	19.75	20.90	21.30	19.58	20.76	20.00	21.15	21.55
	12H	19.33	20.46	19.76	20.84	21.27	19.64	20.77	20.07	21.15	21.58
4H	2H	17.68	19.02	18.08	19.37	19.75	17.63	18.97	18.03	19.32	19.70
	3H	19.35	20.46	19.76	20.86	21.26	19.41	20.53	19.82	20.93	21.33
	4H	19.87	20.88	20.30	21.29	21.73	20.02	21.03	20.46	21.44	21.88
	6H	20.17	21.05	20.63	21.49	21.95	20.43	21.30	20.88	21.74	22.20
	8H	20.22	21.04	20.69	21.48	21.95	20.55	21.36	21.01	21.81	22.27
	12H	20.24	20.97	20.72	21.45	21.92	20.64	21.37	21.12	21.85	22.32
8H	4H	20.08	20.90	20.54	21.34	21.81	20.22	21.04	20.68	21.48	21.94
	6H	20.45	21.12	20.94	21.61	22.09	20.70	21.38	21.19	21.86	22.34
	8H	20.53	21.13	21.04	21.64	22.13	20.87	21.47	21.38	21.98	22.47
	12H	20.57	21.11	21.08	21.60	22.16	21.02	21.55	21.52	22.04	22.60
12H	4H	20.09	20.82	20.57	21.30	21.77	20.22	20.95	20.70	21.43	21.90
	6H	20.46	21.07	20.97	21.57	22.06	20.70	21.31	21.22	21.82	22.31
	8H	20.58	21.12	21.09	21.61	22.17	20.92	21.45	21.42	21.94	22.50