

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: P1498494

Luminaire Tested: MAE-G-2-120-2LO-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498494
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

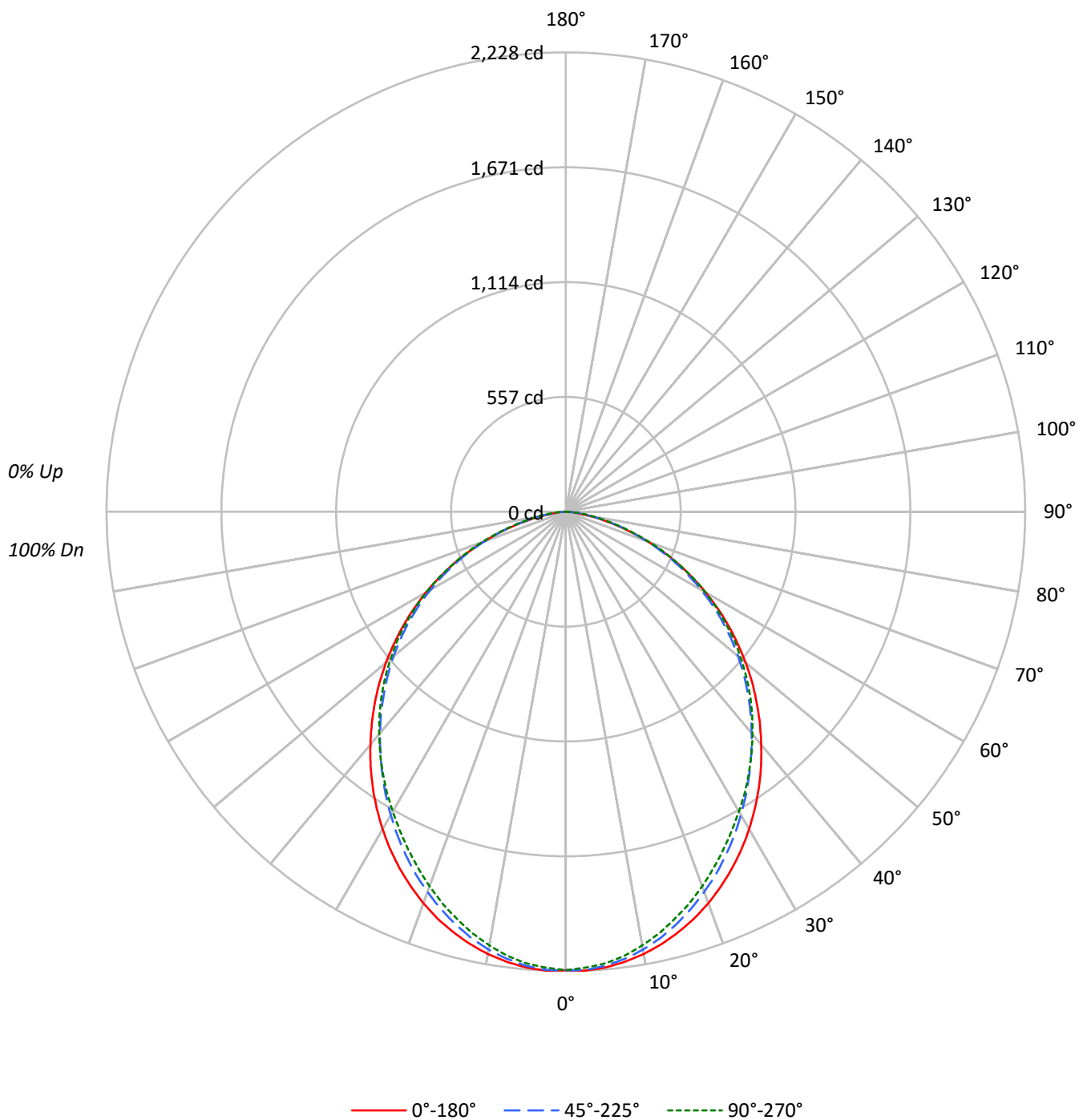
Lumens per Lamp: N/A
Luminaire Lumens: 5367.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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°	5984	5984	5984
5°	5992	5970	5939
10°	5951	5892	5835
15°	5879	5769	5692
20°	5785	5619	5536
25°	5665	5455	5368
30°	5524	5278	5216
35°	5364	5097	5082
40°	5180	4925	4949
45°	4983	4751	4810
50°	4767	4564	4641
55°	4517	4348	4445
60°	4218	4082	4208
65°	3842	3741	3869
70°	3326	3305	3415
75°	2659	2746	2817
80°	1815	2010	2132
85°	951	1426	1874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	3.9
10°-20°	583.4	10.9
20°-30°	849.8	15.8
30°-40°	982.0	18.3
40°-50°	976.8	18.2
50°-60°	839.2	15.6
60°-70°	589.1	11.0
70°-80°	280.9	5.2
80°-90°	56.8	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°	1642.1	30.6
0°-40°	2624.1	48.9
0°-60°	4440.1	82.7
0°-90°	5367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2218	2211	2210	2195	2199	210
15°	2110	2094	2071	2043	2043	595
25°	1908	1881	1837	1808	1808	878
35°	1633	1597	1552	1540	1547	1020
45°	1309	1276	1248	1255	1264	1010
55°	963	935	927	940	948	860
65°	603	586	588	600	608	597
75°	256	249	264	269	271	275
85°	31	36	46	56	61	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2223.6	2223.6	2223.6	2223.6	2223.6
2.5°	2227.7	2222.0	2223.6	2212.0	2212.6
5°	2218.2	2211.3	2210.2	2195.2	2198.7
7.5°	2201.2	2192.6	2187.2	2169.7	2172.5
10°	2177.9	2166.6	2156.2	2134.3	2135.5
12.5°	2147.7	2134.2	2117.6	2091.8	2093.5
15°	2110.3	2094.5	2070.7	2042.7	2043.2
17.5°	2068.9	2050.8	2019.0	1988.9	1991.5
20°	2020.2	1999.6	1962.1	1930.9	1933.1
22.5°	1966.1	1942.2	1902.4	1870.9	1870.9
25°	1908.1	1881.1	1837.1	1807.5	1807.8
27.5°	1845.3	1815.1	1769.2	1741.5	1743.4
30°	1777.7	1745.5	1698.5	1675.4	1678.5
32.5°	1706.6	1672.9	1626.6	1609.4	1615.2
35°	1632.8	1596.9	1551.5	1540.5	1547.1
37.5°	1555.7	1520.2	1477.2	1472.3	1479.1
40°	1474.6	1440.3	1402.0	1401.1	1408.8
42.5°	1392.8	1359.2	1326.0	1329.4	1337.7
45°	1309.3	1275.5	1248.3	1255.0	1263.8
47.5°	1225.7	1192.3	1170.7	1179.9	1187.9
50°	1138.6	1107.5	1090.3	1101.6	1108.7
52.5°	1049.7	1020.7	1009.1	1022.2	1032.3
55°	962.8	934.9	926.7	940.3	947.5
57.5°	873.1	849.3	843.9	857.0	864.8
60°	783.7	761.4	758.4	773.1	781.8
62.5°	693.3	673.0	673.5	688.0	695.2
65°	603.4	586.1	587.6	600.4	607.7
67.5°	514.2	498.6	503.8	518.5	522.3
70°	422.7	410.6	420.1	431.7	434.0
72.5°	337.8	327.4	339.7	348.4	349.2
75°	255.7	249.1	264.1	269.1	270.9
77.5°	181.1	180.0	191.9	197.1	199.4
80°	117.1	120.9	129.7	136.6	137.6
82.5°	66.5	71.1	79.9	91.6	96.2
85°	30.8	35.7	46.2	56.3	60.7
87.5°	10.4	14.1	19.5	21.3	20.3
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	17.15	18.73	17.51	19.04	19.36	17.19	18.77	17.55	19.08	19.40
	3H	18.62	20.05	19.00	20.37	20.73	18.73	20.15	19.11	20.48	20.84
	4H	19.05	20.39	19.45	20.74	21.12	19.20	20.54	19.60	20.89	21.26
	6H	19.27	20.51	19.68	20.87	21.26	19.47	20.71	19.88	21.07	21.46
	8H	19.30	20.48	19.72	20.87	21.27	19.54	20.72	19.96	21.11	21.51
	12H	19.30	20.43	19.73	20.81	21.24	19.59	20.71	20.01	21.10	21.53
4H	2H	17.68	19.02	18.08	19.37	19.74	17.72	19.05	18.11	19.40	19.78
	3H	19.34	20.45	19.75	20.85	21.25	19.45	20.56	19.86	20.96	21.36
	4H	19.86	20.86	20.29	21.27	21.71	20.02	21.02	20.45	21.44	21.88
	6H	20.15	21.03	20.61	21.47	21.92	20.38	21.25	20.84	21.70	22.15
	8H	20.20	21.02	20.66	21.46	21.93	20.48	21.30	20.94	21.74	22.21
	12H	20.22	20.95	20.70	21.42	21.89	20.56	21.29	21.04	21.76	22.23
8H	4H	20.06	20.87	20.52	21.32	21.78	20.21	21.02	20.67	21.47	21.93
	6H	20.41	21.09	20.91	21.58	22.05	20.64	21.31	21.13	21.80	22.28
	8H	20.49	21.10	21.00	21.60	22.09	20.78	21.38	21.29	21.89	22.38
	12H	20.53	21.07	21.04	21.56	22.12	20.91	21.44	21.42	21.93	22.49
12H	4H	20.06	20.79	20.54	21.27	21.74	20.21	20.94	20.69	21.41	21.88
	6H	20.42	21.03	20.94	21.54	22.02	20.64	21.24	21.15	21.75	22.24
	8H	20.54	21.07	21.05	21.56	22.13	20.82	21.36	21.33	21.85	22.41