

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: P1498161

Luminaire Tested: MAE-G-2-120-1LO-HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1LO-HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

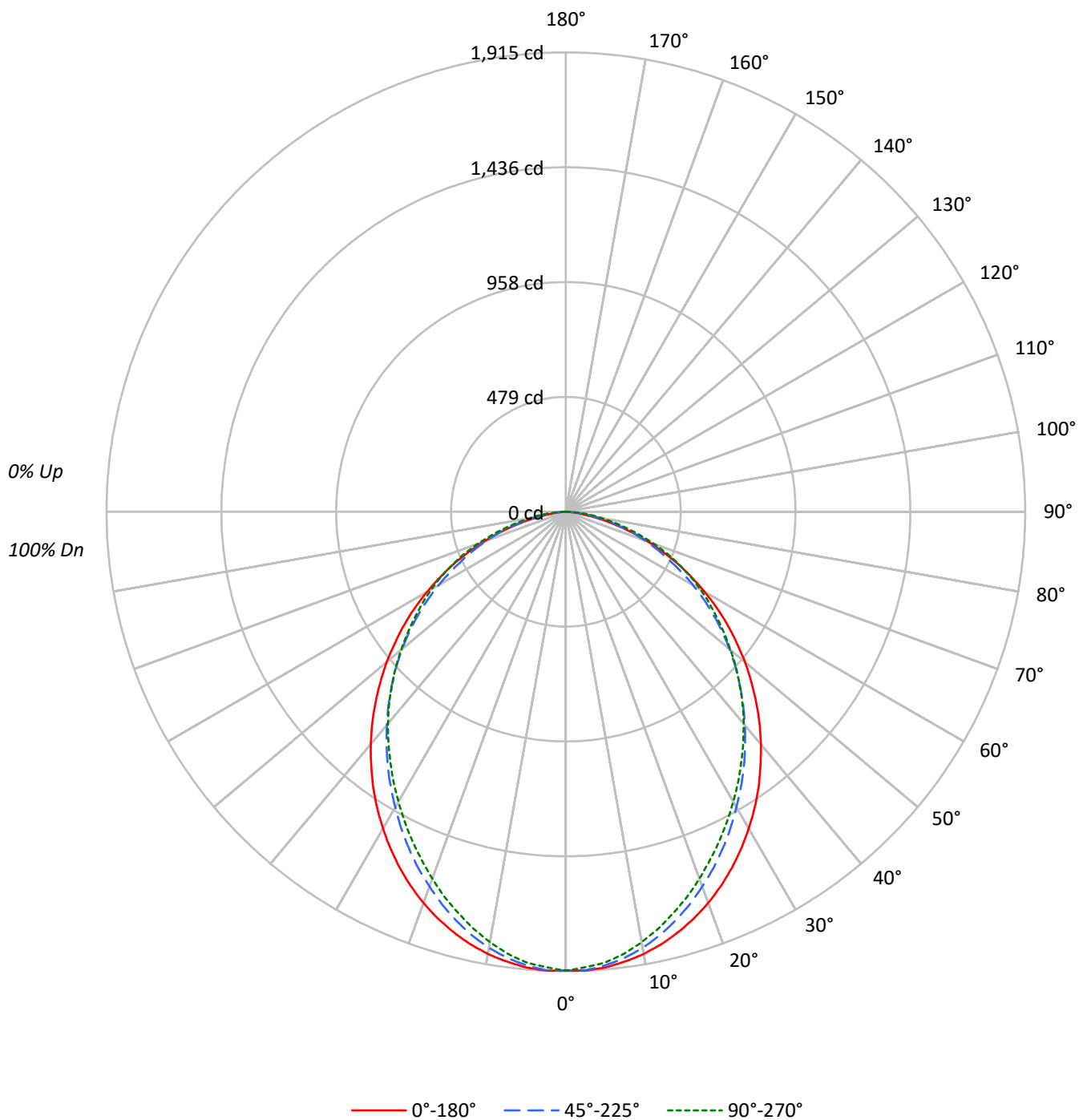
Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5146	5146	5146
5°	5149	5127	5095
10°	5114	5044	4978
15°	5053	4916	4824
20°	4969	4761	4661
25°	4863	4598	4495
30°	4738	4419	4337
35°	4601	4251	4190
40°	4444	4078	4051
45°	4270	3908	3903
50°	4082	3731	3749
55°	3864	3529	3601
60°	3598	3299	3488
65°	3286	3021	3317
70°	2860	2760	3072
75°	2296	2432	2701
80°	1604	1994	2312
85°	905	1599	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.0
10°-20°	497.5	11.0
20°-30°	718.7	15.9
30°-40°	822.7	18.2
40°-50°	810.3	17.9
50°-60°	691.3	15.3
60°-70°	492.0	10.9
70°-80°	250.8	5.5
80°-90°	59.3	1.3
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°	1395.5	30.9
0°-40°	2218.2	49.1
0°-60°	3719.9	82.3
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1906	1905	1898	1881	1886	181
15°	1814	1800	1764	1731	1732	511
25°	1638	1607	1548	1514	1514	754
35°	1401	1357	1294	1273	1275	875
45°	1122	1079	1027	1022	1026	865
55°	824	784	752	758	768	735
65°	516	484	474	507	521	510
75°	221	207	234	255	260	238
85°	29	37	52	64	70	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1914.6	1916.5	1912.4	1896.7	1900.4
5°	1906.2	1904.9	1897.9	1881.4	1886.0
7.5°	1891.3	1888.1	1875.5	1855.4	1858.1
10°	1871.6	1865.1	1845.8	1820.1	1821.7
12.5°	1845.7	1836.4	1808.8	1778.6	1779.8
15°	1813.6	1800.5	1764.5	1731.0	1731.6
17.5°	1776.9	1760.8	1716.5	1679.8	1682.7
20°	1735.2	1714.1	1662.4	1626.2	1627.6
22.5°	1688.9	1662.9	1607.6	1571.3	1570.7
25°	1638.0	1606.8	1548.5	1514.3	1514.0
27.5°	1583.4	1548.7	1487.0	1454.3	1455.7
30°	1524.8	1487.1	1422.2	1394.2	1395.6
32.5°	1464.4	1423.8	1359.1	1334.7	1336.2
35°	1400.7	1356.8	1294.0	1272.9	1275.4
37.5°	1332.9	1289.8	1227.0	1212.6	1214.4
40°	1265.1	1220.8	1160.9	1149.9	1153.3
42.5°	1194.7	1151.1	1094.6	1086.4	1090.7
45°	1121.9	1078.8	1026.9	1022.1	1025.6
47.5°	1048.2	1006.1	959.7	956.9	962.6
50°	975.1	933.8	891.1	891.6	895.6
52.5°	897.5	858.5	822.5	824.2	832.3
55°	823.5	783.9	752.1	757.8	767.6
57.5°	746.4	711.6	683.1	694.5	708.4
60°	668.5	634.8	612.9	633.1	648.0
62.5°	591.5	558.9	542.7	571.2	584.7
65°	516.0	484.3	474.4	506.7	520.9
67.5°	440.0	411.9	412.3	447.2	457.9
70°	363.5	338.1	350.8	382.6	390.4
72.5°	291.0	270.1	292.3	318.8	323.5
75°	220.8	207.1	233.9	255.3	259.8
77.5°	158.5	151.3	178.5	196.4	201.5
80°	103.5	105.5	128.7	144.1	149.2
82.5°	60.7	67.0	85.7	102.4	107.8
85°	29.3	36.9	51.8	64.2	69.6
87.5°	10.0	15.0	21.9	24.4	23.7
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	16.54	18.12	16.90	18.43	18.75	16.34	17.92	16.71	18.24	18.55
	3H	18.01	19.44	18.39	19.76	20.12	18.10	19.52	18.47	19.85	20.21
	4H	18.45	19.79	18.85	20.14	20.52	18.70	20.04	19.10	20.39	20.76
	6H	18.69	19.93	19.10	20.29	20.68	19.10	20.34	19.52	20.71	21.10
	8H	18.72	19.91	19.15	20.30	20.70	19.24	20.42	19.66	20.81	21.21
	12H	18.73	19.87	19.16	20.25	20.68	19.33	20.47	19.76	20.85	21.28
4H	2H	17.02	18.36	17.42	18.71	19.08	16.86	18.20	17.26	18.55	18.92
	3H	18.68	19.80	19.09	20.20	20.60	18.83	19.94	19.24	20.34	20.74
	4H	19.21	20.22	19.65	20.64	21.07	19.55	20.56	19.98	20.97	21.41
	6H	19.53	20.41	19.99	20.85	21.31	20.08	20.96	20.53	21.40	21.86
	8H	19.60	20.42	20.06	20.86	21.33	20.26	21.08	20.72	21.52	21.99
	12H	19.62	20.36	20.10	20.83	21.30	20.40	21.13	20.88	21.61	22.08
8H	4H	19.46	20.28	19.92	20.72	21.19	19.76	20.58	20.22	21.02	21.49
	6H	19.85	20.53	20.34	21.02	21.49	20.39	21.07	20.88	21.56	22.03
	8H	19.95	20.56	20.46	21.06	21.55	20.63	21.24	21.14	21.75	22.23
	12H	20.01	20.55	20.52	21.04	21.60	20.84	21.38	21.35	21.87	22.44
12H	4H	19.48	20.21	19.96	20.69	21.16	19.76	20.50	20.24	20.97	21.44
	6H	19.88	20.49	20.39	21.00	21.49	20.40	21.01	20.91	21.52	22.00
	8H	20.03	20.57	20.54	21.06	21.62	20.69	21.23	21.20	21.72	22.28