

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: P1498473

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498473
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-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

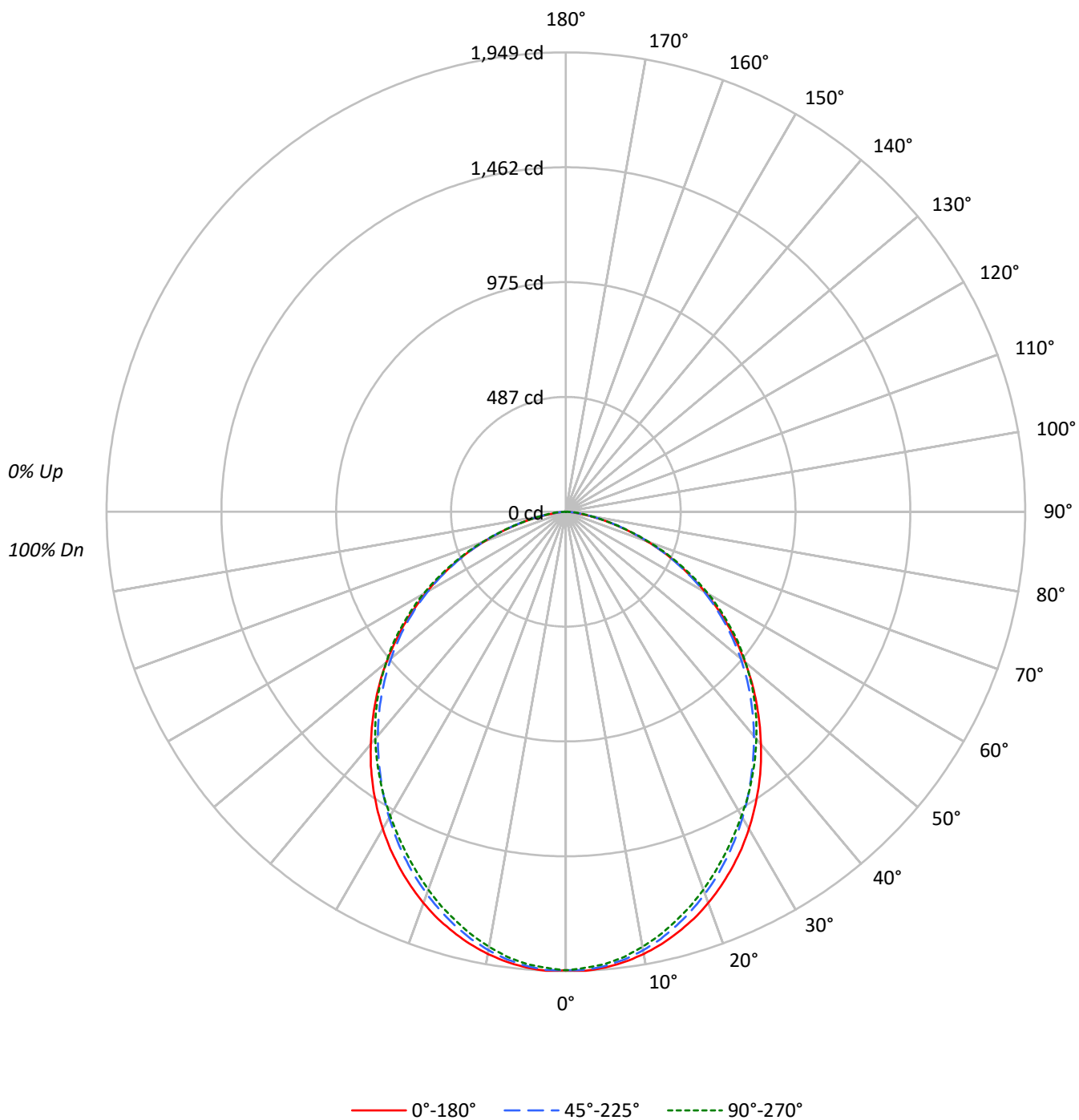
Lumens per Lamp: N/A
Luminaire Lumens: 4727.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	81	98	90	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5235	5235	5235
5°	5243	5225	5201
10°	5206	5162	5121
15°	5142	5063	5010
20°	5059	4941	4886
25°	4953	4805	4751
30°	4827	4658	4630
35°	4686	4505	4524
40°	4523	4361	4417
45°	4349	4214	4306
50°	4159	4055	4165
55°	3940	3867	3993
60°	3676	3634	3767
65°	3344	3326	3425
70°	2888	2911	2964
75°	2303	2372	2362
80°	1562	1666	1692
85°	806	1127	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4349 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.9
10°-20°	512.0	10.8
20°-30°	748.0	15.8
30°-40°	866.9	18.3
40°-50°	864.7	18.3
50°-60°	744.4	15.7
60°-70°	520.1	11.0
70°-80°	241.9	5.1
80°-90°	46.1	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°	1442.9	30.5
0°-40°	2309.7	48.9
0°-60°	3918.9	82.9
0°-90°	4727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1941	1934	1934	1923	1926	184
15°	1846	1833	1817	1797	1798	520
25°	1668	1648	1618	1598	1600	768
35°	1426	1400	1371	1369	1377	891
45°	1143	1120	1107	1120	1131	882
55°	840	821	824	843	851	750
65°	525	516	522	532	538	519
75°	222	218	228	228	227	238
85°	26	30	36	44	47	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.4	1945.4	1945.4	1945.4	1945.4
2.5°	1949.3	1943.2	1945.4	1936.5	1936.3
5°	1940.8	1934.0	1934.3	1922.8	1925.5
7.5°	1925.9	1917.9	1915.2	1902.0	1904.4
10°	1905.3	1895.3	1889.1	1872.8	1874.0
12.5°	1878.8	1867.4	1856.8	1837.9	1839.8
15°	1845.8	1832.8	1817.2	1797.3	1798.2
17.5°	1809.5	1795.2	1773.6	1752.3	1755.3
20°	1766.5	1750.7	1725.3	1703.2	1706.3
22.5°	1719.0	1700.9	1674.2	1652.2	1653.7
25°	1668.1	1648.0	1618.3	1598.2	1600.1
27.5°	1612.9	1590.5	1560.0	1541.8	1545.2
30°	1553.5	1529.9	1499.0	1485.0	1489.9
32.5°	1491.0	1466.8	1436.6	1428.3	1435.8
35°	1426.3	1400.5	1371.4	1368.8	1377.2
37.5°	1358.9	1333.5	1306.9	1309.8	1318.6
40°	1287.6	1263.6	1241.5	1248.1	1257.5
42.5°	1216.0	1192.7	1175.1	1185.6	1195.9
45°	1142.8	1119.6	1107.3	1120.5	1131.4
47.5°	1069.9	1046.7	1039.1	1054.7	1064.4
50°	993.4	972.4	968.6	985.6	995.0
52.5°	915.9	896.5	897.0	915.6	927.3
55°	839.7	821.4	824.2	842.7	851.1
57.5°	761.1	746.3	751.0	767.6	776.1
60°	683.0	669.3	675.2	691.6	700.0
62.5°	603.9	591.9	599.4	613.5	619.2
65°	525.1	515.7	522.3	532.0	537.9
67.5°	447.3	438.6	446.5	456.4	458.7
70°	367.1	361.2	370.0	376.4	376.7
72.5°	293.2	287.7	296.7	299.8	298.7
75°	221.5	218.4	228.1	227.5	227.2
77.5°	156.4	157.2	162.9	162.7	162.9
80°	100.8	104.3	107.5	109.6	109.2
82.5°	56.8	60.2	64.2	72.2	75.4
85°	26.1	29.5	36.5	43.9	47.0
87.5°	8.8	11.5	15.3	16.6	15.8
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	16.68	18.26	17.04	18.58	18.89	16.87	18.45	17.23	18.76	19.08
	3H	18.15	19.57	18.52	19.90	20.26	18.35	19.77	18.72	20.10	20.46
	4H	18.57	19.91	18.97	20.26	20.63	18.77	20.11	19.17	20.46	20.84
	6H	18.78	20.02	19.19	20.38	20.77	18.99	20.23	19.40	20.60	20.99
	8H	18.81	19.99	19.23	20.38	20.78	19.04	20.22	19.47	20.61	21.01
	12H	18.81	19.94	19.24	20.32	20.75	19.08	20.20	19.50	20.59	21.01
4H	2H	17.23	18.57	17.63	18.92	19.30	17.38	18.72	17.78	19.07	19.45
	3H	18.88	19.99	19.29	20.39	20.79	19.05	20.17	19.46	20.56	20.96
	4H	19.39	20.39	19.82	20.80	21.24	19.57	20.58	20.01	20.99	21.43
	6H	19.68	20.55	20.13	20.99	21.45	19.88	20.75	20.33	21.19	21.65
	8H	19.72	20.53	20.18	20.98	21.44	19.95	20.76	20.41	21.21	21.67
	12H	19.73	20.46	20.22	20.94	21.41	20.01	20.73	20.49	21.21	21.68
8H	4H	19.58	20.39	20.04	20.84	21.30	19.75	20.56	20.21	21.00	21.47
	6H	19.92	20.60	20.42	21.09	21.56	20.11	20.78	20.61	21.27	21.75
	8H	20.00	20.60	20.51	21.11	21.59	20.22	20.82	20.73	21.33	21.82
	12H	20.03	20.56	20.54	21.06	21.62	20.32	20.85	20.83	21.34	21.91
12H	4H	19.58	20.31	20.06	20.79	21.26	19.75	20.47	20.23	20.95	21.42
	6H	19.93	20.53	20.44	21.04	21.53	20.11	20.71	20.62	21.22	21.71
	8H	20.03	20.56	20.54	21.06	21.62	20.26	20.79	20.76	21.28	21.84

END OF REPORT