

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: P1498062

Luminaire Tested: MAE-G-2-120-1HI-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498062
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-2-120-1HI-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

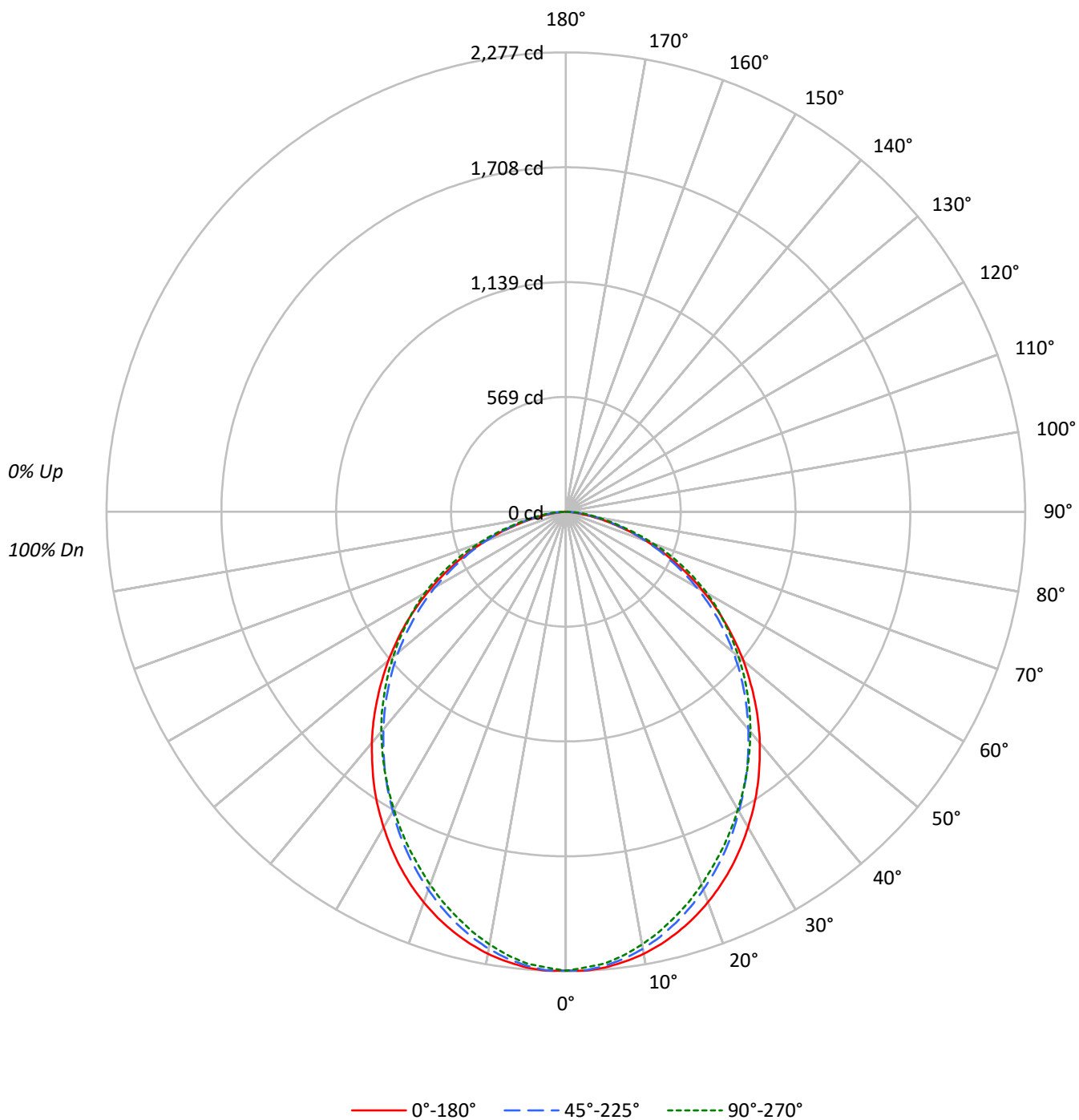
Lumens per Lamp: N/A
Luminaire Lumens: 5434.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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

TEST NUMBER: P1498062

CATALOG NUMBER: MAE-G-2-120-1HI-HI-40-90

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	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	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	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°	6121	6121	6121
5°	6123	6100	6069
10°	6080	6011	5951
15°	6004	5874	5798
20°	5899	5707	5633
25°	5769	5528	5463
30°	5613	5328	5297
35°	5446	5140	5143
40°	5253	4942	5000
45°	5039	4747	4842
50°	4811	4540	4677
55°	4546	4299	4506
60°	4221	4022	4357
65°	3843	3668	4064
70°	3336	3305	3642
75°	2665	2827	3021
80°	1846	2204	2425
85°	1034	1695	2214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5039 cd/sqm

TEST NUMBER: P1498062

CATALOG NUMBER: MAE-G-2-120-1HI-HI-40-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	3.9
10°-20°	594.7	10.9
20°-30°	863.2	15.9
30°-40°	992.7	18.3
40°-50°	981.9	18.1
50°-60°	840.3	15.5
60°-70°	593.4	10.9
70°-80°	290.3	5.3
80°-90°	64.0	1.2
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°	1671.4	30.8
0°-40°	2664.1	49.0
0°-60°	4486.3	82.6
0°-90°	5434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2267	2265	2258	2242	2247	215
15°	2155	2142	2108	2079	2081	607
25°	1943	1913	1862	1835	1840	894
35°	1658	1617	1564	1556	1566	1036
45°	1324	1286	1247	1260	1272	1021
55°	969	934	916	941	960	865
65°	604	576	576	619	638	597
75°	256	245	272	290	291	277
85°	34	41	55	67	72	47
90°	0	0	0	0	0	

TEST NUMBER: P1498062

CATALOG NUMBER: MAE-G-2-120-1HI-HI-40-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.7	2274.7	2274.7	2274.7	2274.7
2.5°	2277.3	2279.2	2274.7	2257.4	2260.6
5°	2266.9	2265.1	2258.1	2241.6	2246.7
7.5°	2248.9	2245.7	2233.1	2213.4	2216.7
10°	2225.0	2218.5	2199.7	2175.1	2177.7
12.5°	2193.8	2185.1	2158.5	2130.5	2133.2
15°	2155.0	2142.5	2108.5	2078.7	2081.3
17.5°	2110.5	2095.9	2054.7	2022.3	2028.3
20°	2059.9	2040.4	1992.9	1961.9	1966.9
22.5°	2004.2	1979.8	1929.8	1899.6	1903.3
25°	1942.9	1913.3	1861.7	1835.4	1839.8
27.5°	1876.8	1844.2	1790.8	1766.6	1773.6
30°	1806.3	1771.1	1714.7	1697.0	1704.7
32.5°	1733.9	1696.5	1640.6	1628.1	1635.9
35°	1657.7	1616.9	1564.5	1555.9	1565.7
37.5°	1576.3	1536.9	1485.0	1485.7	1494.8
40°	1495.5	1454.8	1406.9	1412.1	1423.3
42.5°	1411.6	1372.1	1328.1	1336.6	1349.7
45°	1324.2	1286.3	1247.4	1259.7	1272.2
47.5°	1236.3	1198.9	1166.7	1181.5	1196.6
50°	1149.2	1113.1	1084.4	1103.2	1117.1
52.5°	1057.5	1023.2	1001.8	1021.8	1040.2
55°	968.9	934.0	916.3	940.7	960.4
57.5°	877.2	848.2	832.7	862.3	887.2
60°	784.2	755.7	747.4	785.8	809.6
62.5°	693.2	665.3	660.5	706.2	723.8
65°	603.5	576.1	576.1	619.2	638.2
67.5°	514.5	489.5	498.9	541.0	553.8
70°	424.0	401.7	420.1	456.1	462.9
72.5°	338.9	320.1	346.0	371.9	374.1
75°	256.3	244.6	271.9	289.7	290.6
77.5°	183.5	177.4	203.0	215.7	217.1
80°	119.1	121.7	142.2	152.4	156.5
82.5°	69.5	75.8	92.0	107.6	112.0
85°	33.5	41.1	54.9	66.8	71.7
87.5°	11.6	16.6	23.0	25.5	24.8
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	17.10	18.68	17.46	19.00	19.31	17.22	18.80	17.58	19.11	19.43
	3H	18.55	19.98	18.93	20.30	20.66	18.88	20.30	19.25	20.63	20.99
	4H	18.98	20.32	19.38	20.67	21.05	19.39	20.73	19.79	21.08	21.46
	6H	19.20	20.44	19.62	20.81	21.20	19.70	20.94	20.11	21.31	21.70
	8H	19.24	20.42	19.66	20.81	21.21	19.80	20.98	20.22	21.37	21.77
	12H	19.24	20.37	19.67	20.76	21.19	19.86	20.99	20.29	21.38	21.80
4H	2H	17.61	18.95	18.01	19.30	19.67	17.71	19.04	18.10	19.39	19.77
	3H	19.25	20.36	19.66	20.76	21.16	19.57	20.69	19.98	21.09	21.49
	4H	19.76	20.77	20.20	21.18	21.62	20.20	21.21	20.63	21.62	22.06
	6H	20.07	20.94	20.52	21.38	21.84	20.62	21.49	21.07	21.93	22.39
	8H	20.12	20.94	20.59	21.38	21.85	20.75	21.56	21.21	22.01	22.47
	12H	20.15	20.88	20.63	21.36	21.83	20.85	21.58	21.33	22.06	22.53
8H	4H	19.99	20.81	20.45	21.25	21.72	20.39	21.20	20.85	21.65	22.11
	6H	20.36	21.04	20.86	21.53	22.00	20.89	21.56	21.38	22.05	22.53
	8H	20.45	21.06	20.96	21.57	22.05	21.07	21.68	21.58	22.19	22.67
	12H	20.51	21.04	21.01	21.53	22.09	21.24	21.77	21.74	22.26	22.83
12H	4H	20.00	20.74	20.49	21.21	21.68	20.39	21.12	20.87	21.60	22.07
	6H	20.39	20.99	20.90	21.50	21.99	20.89	21.50	21.40	22.01	22.49
	8H	20.52	21.05	21.02	21.54	22.11	21.12	21.66	21.63	22.15	22.71