

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: P1498263

Luminaire Tested: MAE-G-2-120-1STD-HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498263
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-2-120-1STD-HI-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

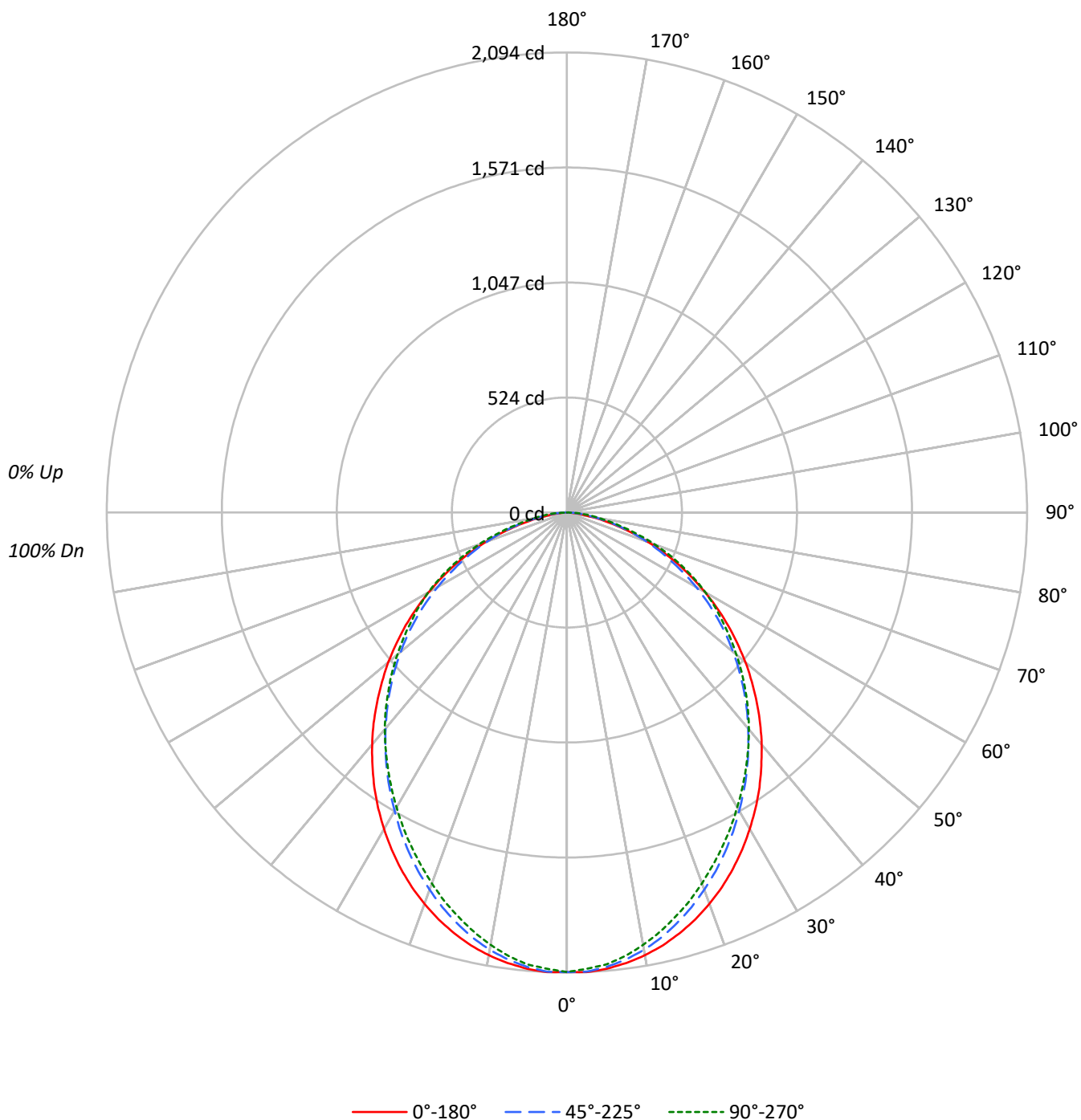
Lumens per Lamp: N/A
Luminaire Lumens: 4975.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		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	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°	5629	5629	5629
5°	5631	5608	5577
10°	5592	5523	5460
15°	5523	5391	5308
20°	5429	5231	5144
25°	5311	5059	4978
30°	5170	4871	4816
35°	5018	4693	4666
40°	4844	4509	4526
45°	4649	4327	4374
50°	4441	4134	4215
55°	4199	3913	4056
60°	3904	3660	3925
65°	3559	3344	3691
70°	3094	3031	3354
75°	2477	2625	2854
80°	1722	2092	2359
85°	966	1639	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	3.9
10°-20°	545.7	11.0
20°-30°	790.5	15.9
30°-40°	907.3	18.2
40°-50°	895.8	18.0
50°-60°	765.6	15.4
60°-70°	542.4	10.9
70°-80°	270.1	5.4
80°-90°	61.4	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°	1532.4	30.8
0°-40°	2439.7	49.0
0°-60°	4101.0	82.4
0°-90°	4975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2085	2083	2076	2060	2065	198
15°	1982	1970	1935	1904	1905	559
25°	1789	1759	1704	1674	1676	823
35°	1528	1486	1429	1414	1420	954
45°	1222	1182	1137	1141	1149	942
55°	895	858	834	850	864	799
65°	559	530	525	563	580	553
75°	238	226	252	272	274	257
85°	31	39	53	65	70	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.7	2091.7	2091.7	2091.7	2091.7
2.5°	2094.0	2096.0	2091.7	2075.3	2078.6
5°	2084.7	2083.1	2076.1	2059.7	2064.6
7.5°	2068.2	2065.0	2052.5	2032.8	2035.8
10°	2046.4	2040.0	2021.1	1996.1	1998.3
12.5°	2018.0	2009.0	1982.1	1953.1	1955.2
15°	1982.4	1969.8	1935.0	1903.7	1905.3
17.5°	1941.8	1926.7	1884.3	1850.0	1854.6
20°	1895.8	1875.6	1826.5	1793.2	1796.4
22.5°	1844.8	1819.8	1767.6	1734.7	1736.4
25°	1788.7	1758.6	1704.0	1674.2	1676.5
27.5°	1728.4	1695.0	1638.0	1610.0	1614.4
30°	1663.9	1627.7	1567.7	1545.2	1549.9
32.5°	1597.5	1558.8	1499.1	1481.1	1485.9
35°	1527.6	1485.6	1428.6	1414.2	1420.5
37.5°	1453.0	1412.1	1355.4	1349.0	1354.7
40°	1378.9	1336.6	1283.5	1281.0	1288.4
42.5°	1301.7	1260.6	1211.0	1211.6	1220.5
45°	1221.7	1181.6	1136.9	1141.0	1149.3
47.5°	1140.9	1101.6	1062.9	1069.4	1079.9
50°	1060.9	1022.6	987.5	997.6	1006.8
52.5°	976.4	940.1	911.9	923.3	936.7
55°	895.1	858.2	834.0	849.5	864.5
57.5°	810.8	779.4	757.7	778.6	798.2
60°	725.4	694.7	680.0	709.6	729.2
62.5°	641.5	611.5	601.4	638.8	654.5
65°	559.0	529.7	525.1	562.9	579.6
67.5°	476.6	450.3	455.4	493.8	505.6
70°	393.2	369.5	385.2	418.9	426.3
72.5°	314.4	294.8	318.8	344.8	348.2
75°	238.2	225.5	252.5	272.0	274.5
77.5°	170.7	164.1	190.3	205.4	208.6
80°	111.1	113.5	135.0	147.6	152.2
82.5°	65.0	71.2	88.5	104.5	109.3
85°	31.3	38.8	53.1	65.2	70.4
87.5°	10.7	15.7	22.4	24.9	24.2
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	16.83	18.41	17.19	18.72	19.04	16.81	18.39	17.17	18.71	19.02
	3H	18.29	19.71	18.66	20.04	20.40	18.51	19.94	18.89	20.26	20.62
	4H	18.72	20.06	19.12	20.41	20.79	19.06	20.40	19.46	20.75	21.13
	6H	18.95	20.19	19.36	20.55	20.94	19.41	20.65	19.82	21.02	21.41
	8H	18.99	20.17	19.41	20.56	20.96	19.52	20.70	19.95	21.09	21.49
	12H	18.99	20.12	19.42	20.51	20.93	19.60	20.73	20.03	21.11	21.54
4H	2H	17.32	18.66	17.72	19.01	19.39	17.31	18.65	17.71	19.00	19.37
	3H	18.97	20.09	19.38	20.49	20.89	19.22	20.33	19.63	20.73	21.13
	4H	19.50	20.50	19.93	20.92	21.35	19.89	20.90	20.32	21.31	21.75
	6H	19.81	20.68	20.26	21.12	21.58	20.35	21.23	20.81	21.67	22.13
	8H	19.86	20.68	20.33	21.13	21.59	20.50	21.32	20.96	21.76	22.23
	12H	19.89	20.62	20.37	21.10	21.57	20.62	21.35	21.10	21.83	22.30
8H	4H	19.73	20.55	20.19	20.99	21.46	20.08	20.90	20.55	21.35	21.81
	6H	20.11	20.79	20.60	21.28	21.75	20.64	21.31	21.13	21.80	22.28
	8H	20.20	20.81	20.71	21.32	21.80	20.85	21.45	21.36	21.96	22.45
	12H	20.26	20.80	20.77	21.29	21.85	21.03	21.57	21.54	22.06	22.62
12H	4H	19.75	20.48	20.23	20.96	21.43	20.08	20.82	20.57	21.29	21.77
	6H	20.14	20.75	20.65	21.25	21.74	20.65	21.25	21.16	21.76	22.25
	8H	20.27	20.81	20.78	21.30	21.86	20.90	21.44	21.41	21.93	22.49