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: P1498554

Luminaire Tested: MAE-G-2-120-2STD-LO-30-90

Issue Date: 6/26/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1498554
	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-2-120-2STD-LO-30-90
Description:	Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5318.0 lumens
Efficiency:	N/A
Efficacy:	89.7 lumens/watt
Spacing Criteria (0/90/45):	1.19 / 1.16 / 1.28
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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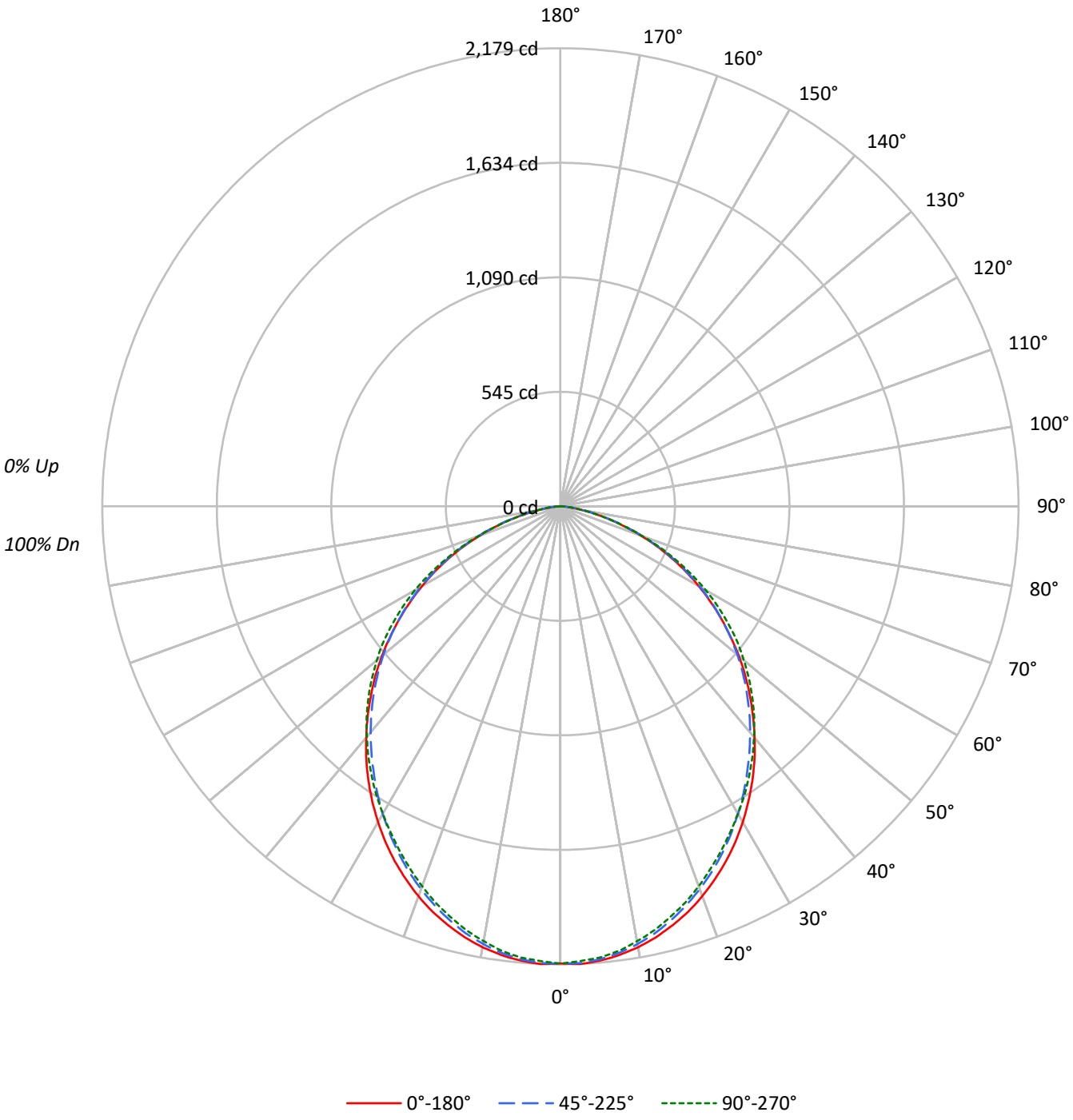
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5852	5852	5852
5°	5861	5843	5820
10°	5820	5778	5741
15°	5747	5676	5633
20°	5653	5550	5508
25°	5533	5407	5369
30°	5391	5250	5246
35°	5231	5086	5141
40°	5047	4931	5032
45°	4851	4772	4918
50°	4636	4599	4769
55°	4390	4390	4575
60°	4094	4130	4303
65°	3719	3775	3871
70°	3206	3275	3288
75°	2551	2618	2532
80°	1720	1764	1706
85°	874	1133	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 4918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.8
10°-20°	574.0	10.8
20°-30°	841.0	15.8
30°-40°	977.3	18.4
40°-50°	977.5	18.4
50°-60°	843.2	15.9
60°-70°	586.6	11.0
70°-80°	266.2	5.0
80°-90°	47.7	0.9
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°	1619.6	30.5
0°-40°	2596.9	48.8
0°-60°	4417.5	83.1
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2170	2161	2163	2152	2154	206
15°	2063	2049	2038	2020	2022	581
25°	1863	1845	1821	1804	1808	858
35°	1592	1569	1548	1553	1565	995
45°	1275	1256	1254	1277	1292	983
55°	936	922	936	964	975	836
65°	584	580	593	602	608	578
75°	245	245	252	246	244	264
85°	28	31	37	43	46	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2174.8*	2174.8	2174.8	2174.8	2174.8
2.5°	*2179.4*	*2171.5*	*2174.8*	*2166.3*	*2165.0*
5°	*2169.8*	2161.3	2163.2	2151.9	2154.5
7.5°	*2153.1*	2143.6	2142.7	2130.2	2132.9
10°	*2129.8*	2118.6	2114.7	2099.6	2101.1
12.5°	*2100.0*	2087.7	2080.1	2063.0	2065.6
15°	*2062.9*	2049.4	2037.5	2020.0	2021.8
17.5°	*2022.2*	2007.9	1990.4	1972.1	1976.2
20°	*1973.9*	1958.6	1937.9	1918.8	1923.5
22.5°	*1920.4*	1903.3	1882.2	1863.5	1866.6
25°	*1863.4*	1844.8	1820.9	1804.5	1808.3
27.5°	*1801.4*	1780.7	1756.9	1742.9	1748.7
30°	*1734.8*	1713.4	1689.6	1680.6	1688.4
32.5°	*1664.6*	1643.0	1620.4	1618.3	1629.3
35°	*1592.2*	1569.3	1548.1	1552.7	1564.9
37.5°	*1516.8*	1494.4	1476.6	1487.5	1500.3
40°	*1436.8*	1416.4	1403.8	1419.0	1432.6
42.5°	*1356.6*	1337.2	1329.8	1349.5	1364.2
45°	*1274.7*	1255.5	1254.0	1276.7	1292.3
47.5°	*1193.4*	1173.9	1177.6	1202.9	1216.9
50°	*1107.5*	1090.8	1098.5	1125.2	1139.2
52.5°	*1021.4*	1005.9	1017.9	1046.2	1062.6
55°	*935.8*	922.0	935.8	963.6	975.2
57.5°	*848.0*	838.0	853.1	877.3	888.4
60°	*760.6*	751.6	767.3	789.3	799.6
62.5°	*672.4*	665.0	680.9	698.2	704.1
65°	*584.0*	579.5	592.8	602.0	607.9
67.5°	*497.4*	492.9	505.3	513.0	514.5
70°	*407.5*	406.1	416.3	419.3	417.9
72.5°	*325.3*	323.0	331.0	329.7	326.7
75°	*245.4*	244.7	251.8	245.8	243.5
77.5°	*172.7*	175.3	176.8	171.7	169.7
80°	*111.0*	115.1	113.8	111.9	110.1
82.5°	*62.1*	65.1	65.7	72.3	74.8
85°	*28.3*	31.1	36.7	43.3	45.9
87.5°	*9.6*	12.0	15.3	16.4	15.5
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	17.06	18.65	17.43	18.96	19.28	17.39	18.97	17.75	19.28	19.60
	3H	18.52	19.95	18.90	20.27	20.64	18.81	20.24	19.19	20.56	20.92
	4H	18.94	20.28	19.34	20.63	21.01	19.20	20.54	19.60	20.88	21.26
	6H	19.15	20.38	19.56	20.75	21.14	19.38	20.61	19.79	20.98	21.37
	8H	19.17	20.35	19.60	20.74	21.14	19.41	20.59	19.84	20.98	21.38
	12H	19.17	20.30	19.60	20.68	21.11	19.43	20.55	19.86	20.94	21.37
4H	2H	17.64	18.97	18.03	19.32	19.70	17.90	19.23	18.29	19.58	19.96
	3H	19.27	20.38	19.68	20.78	21.18	19.51	20.62	19.92	21.02	21.42
	4H	19.78	20.78	20.21	21.19	21.63	19.98	20.98	20.41	21.39	21.83
	6H	20.05	20.92	20.51	21.37	21.82	20.23	21.10	20.68	21.54	22.00
	8H	20.10	20.91	20.56	21.35	21.82	20.28	21.09	20.74	21.54	22.00
	12H	20.11	20.83	20.59	21.31	21.78	20.32	21.05	20.80	21.52	21.99
8H	4H	19.96	20.77	20.42	21.21	21.68	20.14	20.95	20.60	21.40	21.86
	6H	20.29	20.96	20.79	21.45	21.93	20.44	21.11	20.94	21.60	22.08
	8H	20.36	20.96	20.87	21.46	21.95	20.53	21.13	21.04	21.63	22.12
	12H	20.39	20.92	20.90	21.41	21.97	20.60	21.13	21.11	21.62	22.18
12H	4H	19.95	20.68	20.43	21.16	21.63	20.14	20.86	20.62	21.34	21.81
	6H	20.28	20.89	20.80	21.39	21.88	20.44	21.04	20.95	21.55	22.03
	8H	20.38	20.91	20.89	21.40	21.97	20.55	21.08	21.06	21.58	22.14

END OF REPORT