

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: P1499377

Luminaire Tested: MAE-G-4-120-2STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499377
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-4-120-2STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

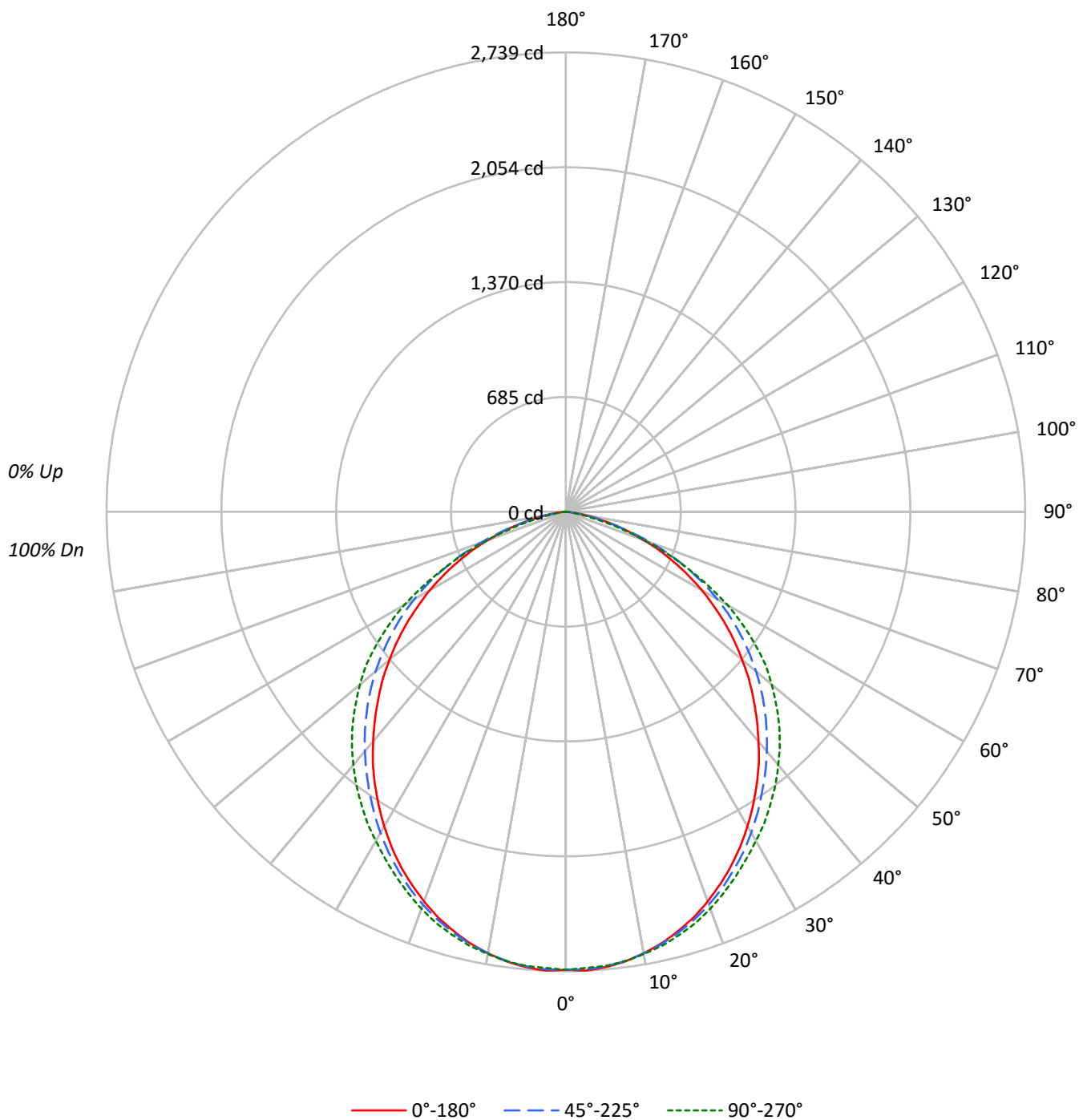
Lumens per Lamp: N/A
Luminaire Lumens: 6894.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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			
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	102	98	107	103	100	97	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65	59	55	53
5	78	65	57	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3675	3675	3675
5°	3681	3675	3671
10°	3653	3653	3658
15°	3604	3617	3639
20°	3540	3569	3606
25°	3461	3507	3559
30°	3366	3435	3521
35°	3260	3351	3494
40°	3139	3276	3461
45°	3011	3194	3423
50°	2871	3098	3354
55°	2713	2974	3228
60°	2521	2807	2997
65°	2273	2551	2566
70°	1941	2123	1984
75°	1524	1538	1239
80°	991	791	475
85°	459	301	244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	3.7
10°-20°	731.6	10.6
20°-30°	1086.8	15.8
30°-40°	1280.1	18.6
40°-50°	1296.9	18.8
50°-60°	1128.8	16.4
60°-70°	769.2	11.2
70°-80°	307.5	4.5
80°-90°	35.2	0.5
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°	2076.3	30.1
0°-40°	3356.5	48.7
0°-60°	5782.2	83.9
0°-90°	6894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2731	2731	2731	2731	2731	
5°	2726	2710	2721	2717	2718	258
15°	2587	2576	2597	2606	2612	729
25°	2331	2332	2362	2382	2397	1073
35°	1984	1994	2040	2094	2127	1240
45°	1582	1602	1678	1757	1799	1221
55°	1156	1182	1268	1348	1376	1033
65°	714	748	801	802	806	708
75°	293	311	296	254	238	316
85°	30	27	20	18	16	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2731.1	2731.1	2731.1	2731.1	2731.1
2.5°	2738.6	2721.0	2731.1	2729.2	2721.8
5°	2725.5	2709.7	2721.0	2717.3	2718.1
7.5°	2704.2	2689.4	2701.5	2700.5	2703.4
10°	2673.7	2658.9	2673.7	2674.5	2677.4
12.5°	2635.5	2622.6	2640.3	2643.9	2650.5
15°	2587.4	2576.3	2596.6	2606.0	2612.4
17.5°	2535.5	2528.1	2548.4	2560.5	2570.8
20°	2472.4	2468.7	2492.9	2504.8	2518.7
22.5°	2403.7	2401.9	2430.8	2445.5	2459.5
25°	2331.4	2332.4	2362.1	2381.6	2397.4
27.5°	2251.6	2253.5	2289.7	2312.9	2332.4
30°	2166.4	2171.1	2210.8	2242.4	2266.6
32.5°	2076.4	2084.8	2127.4	2171.1	2201.6
35°	1984.5	1994.0	2040.3	2094.0	2127.4
37.5°	1890.1	1900.3	1954.0	2017.1	2052.4
40°	1787.2	1802.7	1865.0	1934.5	1970.6
42.5°	1685.9	1703.5	1773.2	1849.3	1888.2
45°	1582.2	1601.7	1678.5	1757.4	1799.0
47.5°	1482.0	1498.6	1581.2	1663.8	1700.9
50°	1371.7	1393.8	1480.1	1562.7	1602.5
52.5°	1265.9	1287.2	1375.4	1459.6	1500.6
55°	1156.5	1181.5	1267.8	1347.5	1376.2
57.5°	1046.2	1074.9	1158.3	1224.1	1249.1
60°	936.7	965.4	1043.3	1095.2	1113.8
62.5°	826.2	856.0	924.6	956.2	959.9
65°	714.1	747.5	801.2	802.3	806.0
67.5°	607.5	635.2	674.2	663.1	657.6
70°	493.4	523.9	539.7	517.6	504.4
72.5°	392.3	414.5	411.8	379.2	363.6
75°	293.1	310.7	295.8	254.2	238.4
77.5°	203.1	217.9	188.2	149.2	133.6
80°	127.9	134.5	102.1	72.4	61.3
82.5°	68.7	67.6	43.7	36.1	33.4
85°	29.7	26.9	19.5	17.6	15.8
87.5°	10.2	9.2	7.4	6.6	5.5
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	15.44	17.02	15.80	17.33	17.65	16.40	17.98	16.76	18.29	18.61
	3H	16.86	18.28	17.24	18.61	18.97	17.59	19.01	17.97	19.34	19.70
	4H	17.25	18.58	17.65	18.93	19.31	17.80	19.14	18.20	19.48	19.86
	6H	17.43	18.66	17.84	19.02	19.41	17.82	19.05	18.23	19.42	19.81
	8H	17.44	18.61	17.86	19.00	19.40	17.80	18.97	18.22	19.36	19.76
	12H	17.43	18.55	17.86	18.93	19.36	17.77	18.89	18.20	19.28	19.71
4H	2H	16.10	17.43	16.50	17.78	18.16	16.87	18.21	17.27	18.55	18.93
	3H	17.68	18.78	18.09	19.18	19.58	18.22	19.33	18.63	19.73	20.13
	4H	18.15	19.14	18.58	19.56	20.00	18.49	19.48	18.92	19.90	20.34
	6H	18.39	19.25	18.85	19.70	20.15	18.54	19.40	19.00	19.84	20.30
	8H	18.41	19.22	18.88	19.66	20.13	18.52	19.32	18.98	19.76	20.23
	12H	18.41	19.13	18.90	19.61	20.08	18.50	19.21	18.98	19.69	20.16
8H	4H	18.29	19.09	18.75	19.54	20.00	18.61	19.41	19.07	19.85	20.32
	6H	18.56	19.23	19.06	19.72	20.19	18.66	19.33	19.16	19.82	20.29
	8H	18.60	19.19	19.12	19.70	20.19	18.64	19.23	19.15	19.74	20.23
	12H	18.62	19.14	19.12	19.63	20.19	18.63	19.15	19.13	19.64	20.20
12H	4H	18.27	18.99	18.75	19.47	19.94	18.59	19.31	19.08	19.79	20.26
	6H	18.53	19.13	19.05	19.64	20.12	18.64	19.23	19.15	19.74	20.23
	8H	18.60	19.12	19.11	19.61	20.17	18.64	19.16	19.15	19.65	20.22