

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: P1499380

Luminaire Tested: MAE-G-4-120-2STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499380
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

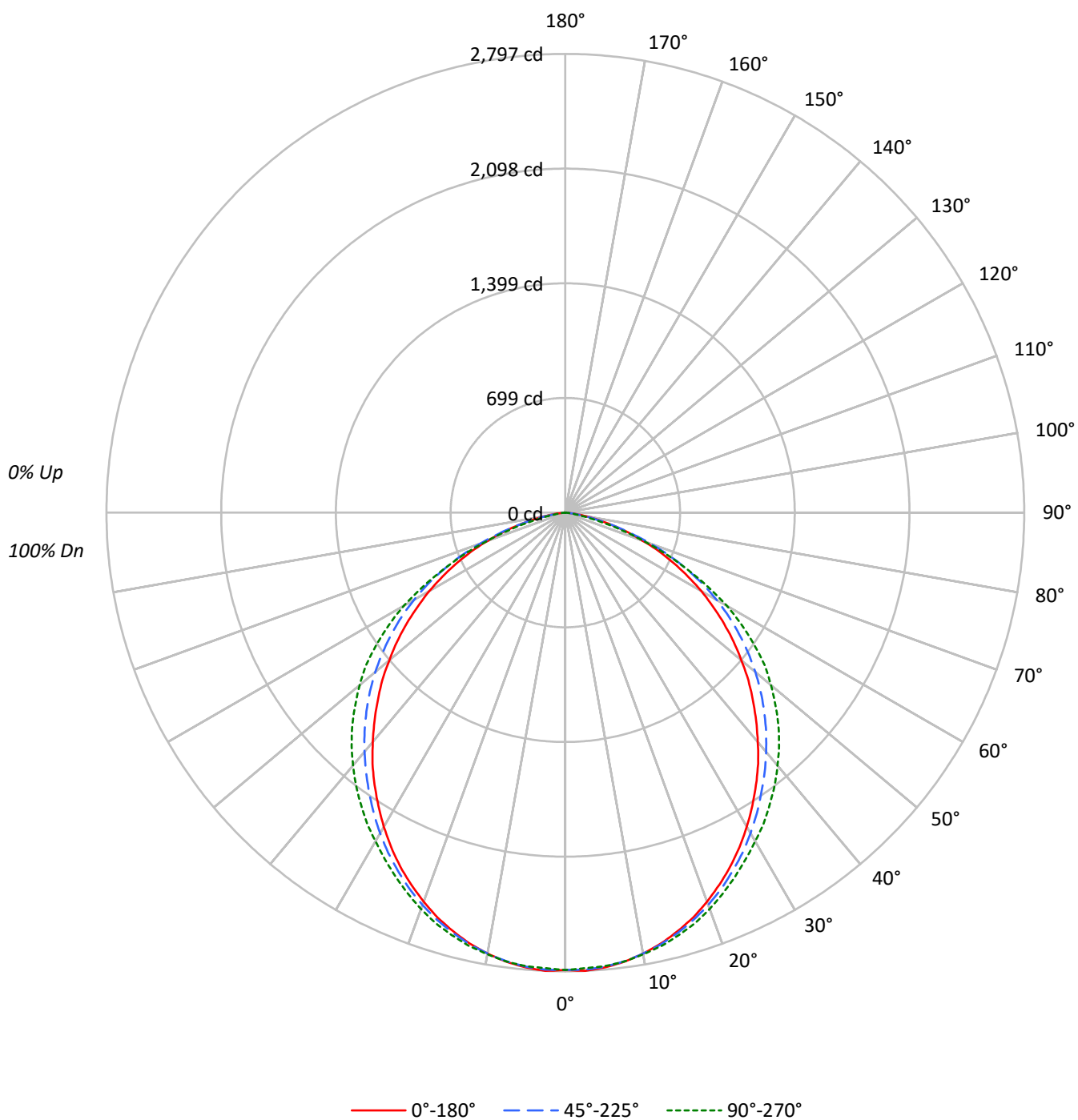
Lumens per Lamp: N/A
Luminaire Lumens: 7040.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499380

CATALOG NUMBER: MAE-G-4-120-2STD-40-90-VRDCPH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3752	3752	3752
5°	3759	3753	3749
10°	3730	3730	3735
15°	3680	3694	3716
20°	3615	3645	3683
25°	3534	3581	3634
30°	3437	3508	3596
35°	3329	3422	3568
40°	3205	3345	3534
45°	3074	3262	3496
50°	2932	3164	3425
55°	2770	3037	3297
60°	2574	2867	3061
65°	2322	2605	2620
70°	1982	2168	2026
75°	1556	1570	1265
80°	1012	807	485
85°	469	307	249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	3.7
10°-20°	747.1	10.6
20°-30°	1109.8	15.8
30°-40°	1307.2	18.6
40°-50°	1324.4	18.8
50°-60°	1152.7	16.4
60°-70°	785.5	11.2
70°-80°	314.0	4.5
80°-90°	35.9	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°	2120.3	30.1
0°-40°	3427.5	48.7
0°-60°	5904.6	83.9
0°-90°	7040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2789	2789	2789	2789	2789	
5°	2783	2767	2779	2775	2776	264
15°	2642	2631	2652	2661	2668	745
25°	2381	2382	2412	2432	2448	1095
35°	2027	2036	2084	2138	2172	1267
45°	1616	1636	1714	1795	1837	1247
55°	1181	1206	1295	1376	1405	1055
65°	729	763	818	819	823	723
75°	299	317	302	260	243	322
85°	30	27	20	18	16	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2788.9	2788.9	2788.9	2788.9	2788.9
2.5°	2796.6	2778.6	2788.9	2787.0	2779.5
5°	2783.2	2767.1	2778.6	2774.9	2775.7
7.5°	2761.5	2746.4	2758.7	2757.7	2760.6
10°	2730.3	2715.2	2730.3	2731.1	2734.1
12.5°	2691.4	2678.2	2696.2	2699.9	2706.6
15°	2642.2	2630.9	2651.6	2661.2	2667.7
17.5°	2589.2	2581.7	2602.4	2614.7	2625.2
20°	2524.7	2521.0	2545.7	2557.8	2572.0
22.5°	2454.6	2452.7	2482.2	2497.3	2511.6
25°	2380.7	2381.8	2412.1	2432.0	2448.1
27.5°	2299.3	2301.2	2338.2	2361.9	2381.8
30°	2212.2	2217.0	2257.7	2289.9	2314.6
32.5°	2120.3	2128.9	2172.5	2217.0	2248.2
35°	2026.6	2036.2	2083.5	2138.3	2172.5
37.5°	1930.1	1940.5	1995.4	2059.9	2095.9
40°	1825.0	1840.9	1904.5	1975.5	2012.3
42.5°	1721.6	1739.6	1810.8	1888.4	1928.2
45°	1615.7	1635.6	1714.1	1794.7	1837.1
47.5°	1513.3	1530.3	1614.6	1699.0	1736.9
50°	1400.7	1423.3	1511.5	1595.8	1636.4
52.5°	1292.7	1314.5	1404.5	1490.5	1532.4
55°	1180.9	1206.5	1294.6	1376.0	1405.3
57.5°	1068.3	1097.6	1182.8	1250.0	1275.6
60°	956.6	985.9	1065.4	1118.4	1137.4
62.5°	843.7	874.1	944.2	976.4	980.2
65°	729.2	763.4	818.2	819.3	823.0
67.5°	620.4	648.7	688.4	677.1	671.5
70°	503.8	535.0	551.1	528.5	515.1
72.5°	400.6	423.2	420.5	387.2	371.3
75°	299.3	317.3	302.0	259.5	243.4
77.5°	207.4	222.5	192.1	152.4	136.5
80°	130.6	137.3	104.2	73.9	62.6
82.5°	70.1	69.1	44.6	36.8	34.1
85°	30.4	27.4	19.9	18.0	16.1
87.5°	10.5	9.4	7.5	6.7	5.7
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	15.51	17.09	15.88	17.41	17.72	16.47	18.05	16.84	18.37	18.68
	3H	16.93	18.35	17.31	18.68	19.04	17.66	19.08	18.04	19.41	19.77
	4H	17.33	18.66	17.72	19.01	19.38	17.88	19.21	18.28	19.56	19.93
	6H	17.50	18.73	17.91	19.09	19.49	17.89	19.12	18.31	19.49	19.88
	8H	17.51	18.68	17.94	19.07	19.47	17.87	19.04	18.30	19.43	19.83
	12H	17.50	18.62	17.93	19.01	19.44	17.85	18.97	18.28	19.35	19.78
4H	2H	16.17	17.50	16.57	17.85	18.23	16.95	18.28	17.34	18.63	19.00
	3H	17.75	18.85	18.16	19.25	19.65	18.29	19.40	18.70	19.80	20.20
	4H	18.22	19.22	18.66	19.63	20.07	18.56	19.56	19.00	19.97	20.41
	6H	18.47	19.33	18.92	19.77	20.23	18.61	19.48	19.07	19.92	20.38
	8H	18.49	19.29	18.95	19.73	20.20	18.59	19.39	19.05	19.84	20.30
	12H	18.49	19.20	18.97	19.68	20.15	18.57	19.29	19.05	19.76	20.23
8H	4H	18.36	19.16	18.82	19.61	20.07	18.68	19.48	19.14	19.92	20.39
	6H	18.64	19.30	19.13	19.79	20.27	18.74	19.40	19.23	19.89	20.37
	8H	18.68	19.27	19.19	19.78	20.26	18.71	19.30	19.23	19.81	20.30
	12H	18.69	19.21	19.20	19.70	20.26	18.70	19.22	19.21	19.71	20.27
12H	4H	18.34	19.06	18.82	19.54	20.01	18.67	19.38	19.15	19.86	20.33
	6H	18.61	19.20	19.12	19.71	20.20	18.71	19.31	19.23	19.81	20.30
	8H	18.67	19.19	19.18	19.68	20.25	18.71	19.23	19.22	19.73	20.29