

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: P1498351

Luminaire Tested: MAE-G-2-120-2HI-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498351
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-2-120-2HI-HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

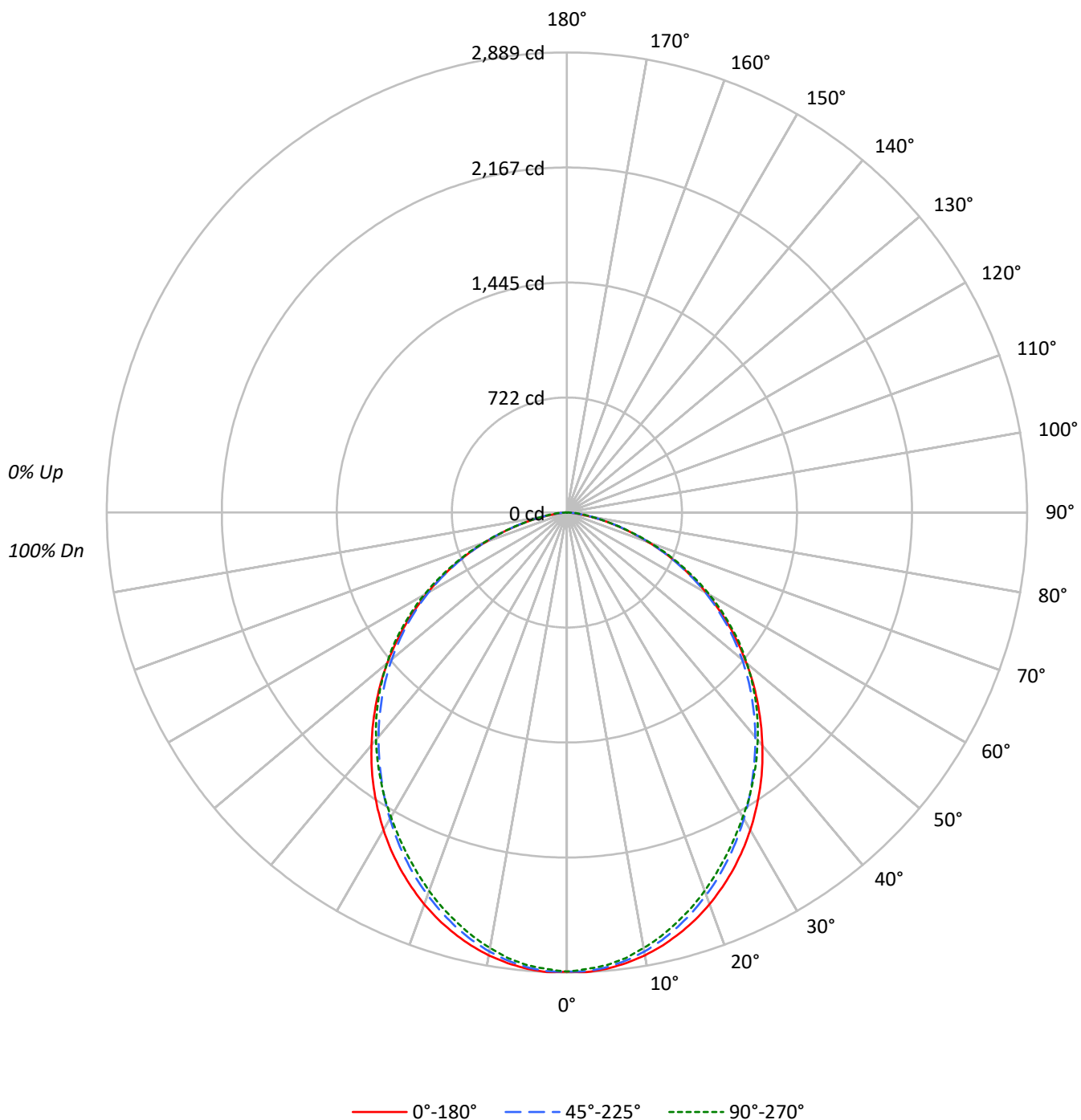
Lumens per Lamp: N/A
Luminaire Lumens: 7006.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	90	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	61
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°	7759	7759	7759
5°	7770	7745	7709
10°	7716	7650	7589
15°	7622	7504	7425
20°	7498	7322	7242
25°	7341	7122	7041
30°	7154	6903	6861
35°	6945	6677	6706
40°	6704	6464	6548
45°	6446	6245	6382
50°	6164	6010	6174
55°	5839	5731	5918
60°	5448	5386	5584
65°	4956	4930	5076
70°	4281	4315	4393
75°	3414	3514	3501
80°	2315	2470	2509
85°	1195	1673	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	3.9
10°-20°	758.8	10.8
20°-30°	1108.6	15.8
30°-40°	1284.8	18.3
40°-50°	1281.6	18.3
50°-60°	1103.4	15.7
60°-70°	770.9	11.0
70°-80°	358.5	5.1
80°-90°	68.3	1.0
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°	2138.5	30.5
0°-40°	3423.3	48.9
0°-60°	5808.2	82.9
0°-90°	7006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2883	2883	2883	2883	2883	
5°	2876	2866	2867	2850	2854	273
15°	2736	2716	2693	2664	2665	771
25°	2472	2443	2399	2369	2372	1138
35°	2114	2076	2033	2029	2041	1321
45°	1694	1659	1641	1661	1677	1307
55°	1244	1217	1222	1249	1262	1111
65°	778	764	774	789	797	770
75°	328	324	338	337	337	353
85°	39	44	54	65	70	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2883.3	2883.3	2883.3	2883.3	2883.3
2.5°	2889.0	2880.1	2883.3	2870.2	2869.8
5°	2876.5	2866.4	2867.0	2849.8	2853.7
7.5°	2854.4	2842.5	2838.6	2819.0	2822.5
10°	2823.8	2809.0	2799.8	2775.7	2777.5
12.5°	2784.5	2767.6	2751.9	2724.1	2726.9
15°	2735.8	2716.5	2693.4	2663.8	2665.3
17.5°	2681.8	2660.7	2628.7	2597.2	2601.6
20°	2618.2	2594.8	2557.0	2524.3	2528.9
22.5°	2547.7	2521.0	2481.4	2448.8	2451.0
25°	2472.3	2442.6	2398.6	2368.6	2371.5
27.5°	2390.5	2357.4	2312.1	2285.1	2290.1
30°	2302.5	2267.6	2221.7	2201.0	2208.2
32.5°	2209.9	2173.9	2129.1	2116.9	2128.1
35°	2114.0	2075.6	2032.6	2028.7	2041.2
37.5°	2014.0	1976.4	1937.0	1941.4	1954.3
40°	1908.5	1872.8	1840.0	1849.8	1863.9
42.5°	1802.2	1767.8	1741.7	1757.3	1772.4
45°	1693.8	1659.4	1641.1	1660.7	1676.9
47.5°	1585.7	1551.3	1540.1	1563.1	1577.6
50°	1472.3	1441.3	1435.6	1460.9	1474.8
52.5°	1357.5	1328.7	1329.5	1356.9	1374.5
55°	1244.5	1217.4	1221.6	1249.0	1261.5
57.5°	1128.1	1106.2	1113.1	1137.8	1150.3
60°	1012.3	992.0	1000.8	1024.9	1037.5
62.5°	895.2	877.3	888.4	909.2	917.8
65°	778.3	764.4	774.2	788.6	797.2
67.5°	663.1	650.1	661.9	676.3	679.8
70°	544.1	535.4	548.4	557.8	558.4
72.5°	434.6	426.4	439.6	444.4	442.8
75°	328.4	323.7	338.0	337.1	336.7
77.5°	231.8	232.9	241.5	241.2	241.4
80°	149.4	154.6	159.4	162.4	161.9
82.5°	84.2	89.3	95.1	107.1	111.8
85°	38.7	43.8	54.2	65.1	69.6
87.5°	13.1	17.0	22.8	24.6	23.3
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	18.05	19.63	18.41	19.94	20.26	18.23	19.82	18.60	20.13	20.44
	3H	19.51	20.94	19.89	21.26	21.62	19.71	21.14	20.09	21.47	21.83
	4H	19.94	21.28	20.34	21.63	22.00	20.14	21.48	20.54	21.83	22.20
	6H	20.15	21.39	20.56	21.75	22.14	20.36	21.60	20.77	21.96	22.35
	8H	20.18	21.36	20.60	21.74	22.14	20.41	21.59	20.84	21.98	22.38
	12H	20.18	21.30	20.61	21.69	22.11	20.44	21.57	20.87	21.95	22.38
4H	2H	18.60	19.94	19.00	20.29	20.66	18.75	20.09	19.15	20.44	20.81
	3H	20.24	21.36	20.65	21.76	22.16	20.42	21.53	20.83	21.93	22.33
	4H	20.76	21.76	21.19	22.17	22.61	20.94	21.94	21.37	22.36	22.79
	6H	21.04	21.92	21.50	22.36	22.81	21.24	22.11	21.70	22.56	23.01
	8H	21.09	21.90	21.55	22.35	22.81	21.32	22.13	21.78	22.57	23.04
	12H	21.10	21.83	21.58	22.31	22.78	21.37	22.10	21.85	22.58	23.05
8H	4H	20.95	21.76	21.41	22.20	22.67	21.11	21.93	21.58	22.37	22.84
	6H	21.29	21.96	21.79	22.45	22.93	21.48	22.15	21.97	22.64	23.12
	8H	21.36	21.97	21.88	22.47	22.96	21.59	22.19	22.10	22.70	23.19
	12H	21.40	21.93	21.91	22.42	22.99	21.69	22.22	22.20	22.71	23.27
12H	4H	20.95	21.68	21.43	22.15	22.62	21.11	21.84	21.59	22.32	22.79
	6H	21.29	21.90	21.81	22.41	22.89	21.48	22.08	21.99	22.59	23.07
	8H	21.40	21.93	21.91	22.42	22.99	21.62	22.15	22.13	22.65	23.21