

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: P1498342

Luminaire Tested: MAE-G-2-120-2HI-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498342
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-35-90-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

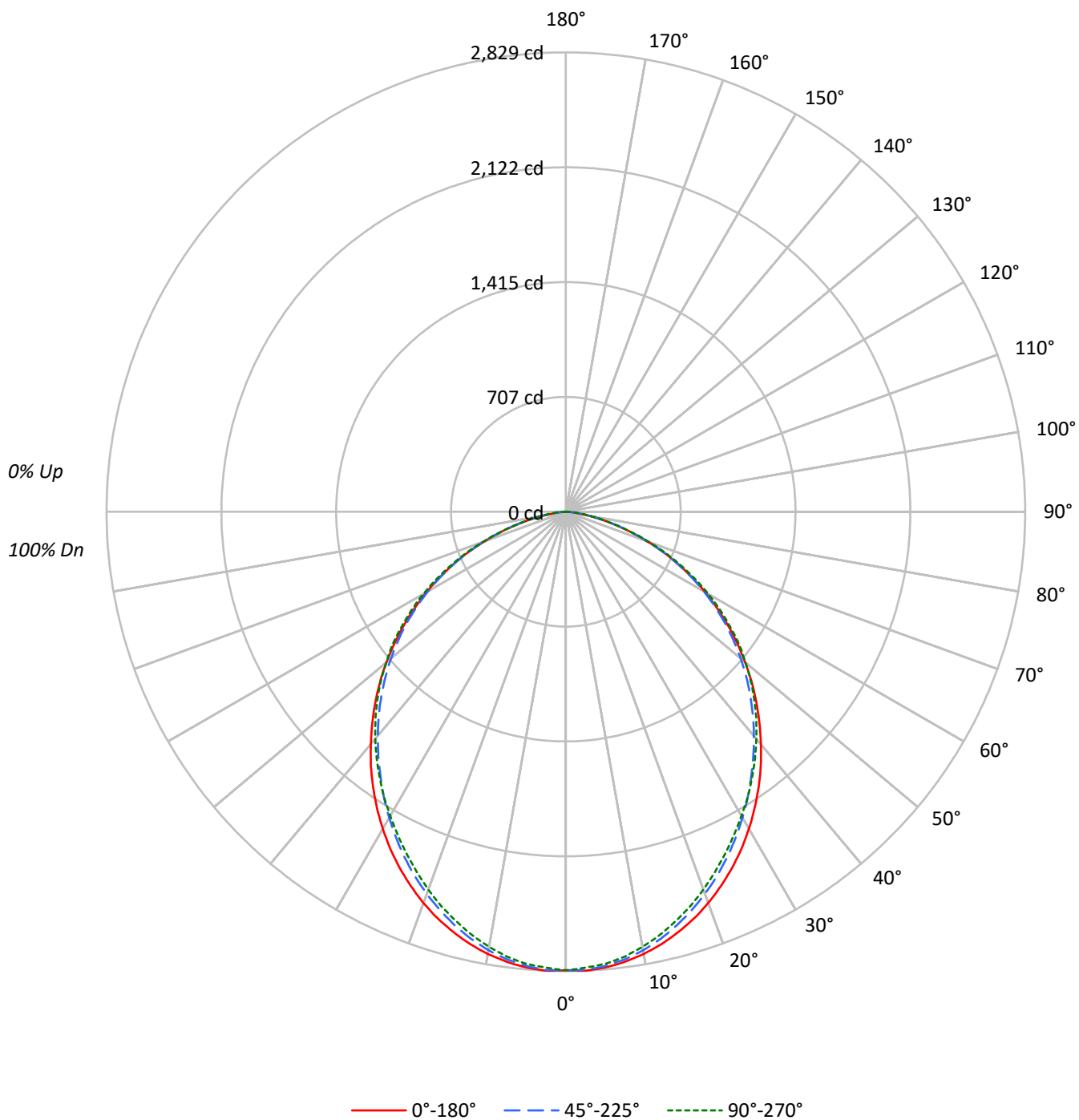
Lumens per Lamp: N/A
Luminaire Lumens: 6861.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7598	7598	7598
5°	7609	7584	7549
10°	7556	7492	7432
15°	7464	7348	7272
20°	7342	7171	7092
25°	7189	6974	6895
30°	7006	6760	6719
35°	6801	6539	6567
40°	6565	6330	6412
45°	6312	6116	6250
50°	6036	5885	6046
55°	5718	5613	5796
60°	5335	5274	5468
65°	4853	4828	4970
70°	4193	4226	4302
75°	3344	3442	3429
80°	2269	2419	2456
85°	1170	1636	2103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.9
10°-20°	743.1	10.8
20°-30°	1085.7	15.8
30°-40°	1258.2	18.3
40°-50°	1255.1	18.3
50°-60°	1080.6	15.7
60°-70°	755.0	11.0
70°-80°	351.1	5.1
80°-90°	66.9	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°	2094.2	30.5
0°-40°	3352.4	48.9
0°-60°	5688.0	82.9
0°-90°	6861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2817	2807	2808	2791	2795	267
15°	2679	2660	2638	2609	2610	755
25°	2421	2392	2349	2320	2322	1114
35°	2070	2033	1990	1987	1999	1294
45°	1659	1625	1607	1626	1642	1279
55°	1219	1192	1196	1223	1235	1088
65°	762	748	758	772	781	754
75°	322	317	331	330	330	346
85°	38	43	53	64	68	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2829.3	2820.4	2823.6	2810.8	2810.3
5°	2817.0	2807.1	2807.6	2790.8	2794.6
7.5°	2795.4	2783.7	2779.8	2760.7	2764.1
10°	2765.4	2750.8	2741.9	2718.3	2720.0
12.5°	2726.9	2710.3	2695.0	2667.6	2670.4
15°	2679.1	2660.3	2637.6	2608.7	2610.2
17.5°	2626.3	2605.6	2574.3	2543.4	2547.8
20°	2564.0	2541.1	2504.1	2472.1	2476.5
22.5°	2495.0	2468.8	2430.1	2398.1	2400.2
25°	2421.1	2392.1	2348.9	2319.6	2322.3
27.5°	2341.0	2308.6	2264.2	2237.8	2242.7
30°	2254.8	2220.6	2175.7	2155.4	2162.5
32.5°	2164.1	2129.0	2085.1	2073.0	2084.1
35°	2070.2	2032.7	1990.5	1986.7	1999.0
37.5°	1972.4	1935.4	1897.0	1901.2	1913.9
40°	1869.0	1834.0	1801.9	1811.6	1825.3
42.5°	1764.8	1731.2	1705.7	1720.9	1735.8
45°	1658.7	1625.0	1607.2	1626.4	1642.2
47.5°	1552.9	1519.2	1508.3	1530.7	1545.0
50°	1441.8	1411.4	1405.8	1430.6	1444.3
52.5°	1329.5	1301.3	1302.0	1328.9	1346.1
55°	1218.7	1192.2	1196.3	1223.2	1235.3
57.5°	1104.7	1083.4	1090.0	1114.3	1126.4
60°	991.3	971.5	980.0	1003.8	1016.0
62.5°	876.6	859.1	870.0	890.5	898.9
65°	762.2	748.5	758.2	772.3	780.6
67.5°	649.3	636.6	648.2	662.3	665.7
70°	532.9	524.3	537.1	546.3	546.8
72.5°	425.5	417.6	430.5	435.1	433.6
75°	321.6	317.0	331.1	330.2	329.8
77.5°	227.0	228.0	236.5	236.2	236.4
80°	146.4	151.4	156.1	159.0	158.5
82.5°	82.4	87.4	93.2	104.8	109.5
85°	37.9	42.8	53.0	63.7	68.1
87.5°	12.8	16.6	22.3	24.0	22.8
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	17.97	19.56	18.34	19.87	20.19	18.16	19.74	18.52	20.06	20.37
	3H	19.44	20.86	19.82	21.19	21.55	19.64	21.07	20.02	21.39	21.75
	4H	19.87	21.20	20.27	21.55	21.93	20.07	21.41	20.47	21.75	22.13
	6H	20.08	21.31	20.49	21.68	22.07	20.29	21.52	20.70	21.89	22.28
	8H	20.10	21.28	20.53	21.67	22.07	20.34	21.52	20.76	21.91	22.31
	12H	20.10	21.23	20.53	21.61	22.04	20.37	21.50	20.80	21.88	22.31
4H	2H	18.53	19.87	18.93	20.21	20.59	18.68	20.02	19.08	20.36	20.74
	3H	20.17	21.28	20.58	21.68	22.08	20.35	21.46	20.76	21.86	22.26
	4H	20.68	21.69	21.12	22.10	22.54	20.87	21.87	21.30	22.28	22.72
	6H	20.97	21.84	21.43	22.28	22.74	21.17	22.04	21.63	22.48	22.94
	8H	21.02	21.83	21.48	22.27	22.74	21.24	22.06	21.71	22.50	22.97
	12H	21.03	21.76	21.51	22.23	22.70	21.30	22.03	21.78	22.51	22.98
8H	4H	20.87	21.69	21.34	22.13	22.60	21.04	21.86	21.50	22.30	22.77
	6H	21.22	21.89	21.71	22.38	22.86	21.40	22.08	21.90	22.57	23.04
	8H	21.29	21.89	21.80	22.40	22.89	21.52	22.12	22.03	22.63	23.11
	12H	21.33	21.86	21.84	22.35	22.91	21.61	22.15	22.12	22.64	23.20
12H	4H	20.88	21.60	21.36	22.08	22.55	21.04	21.77	21.52	22.25	22.72
	6H	21.22	21.82	21.73	22.33	22.82	21.40	22.01	21.91	22.51	23.00
	8H	21.33	21.86	21.84	22.35	22.91	21.55	22.08	22.06	22.57	23.14