

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: P1498384

Luminaire Tested: MAE-G-2-120-2HI-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498384
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-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

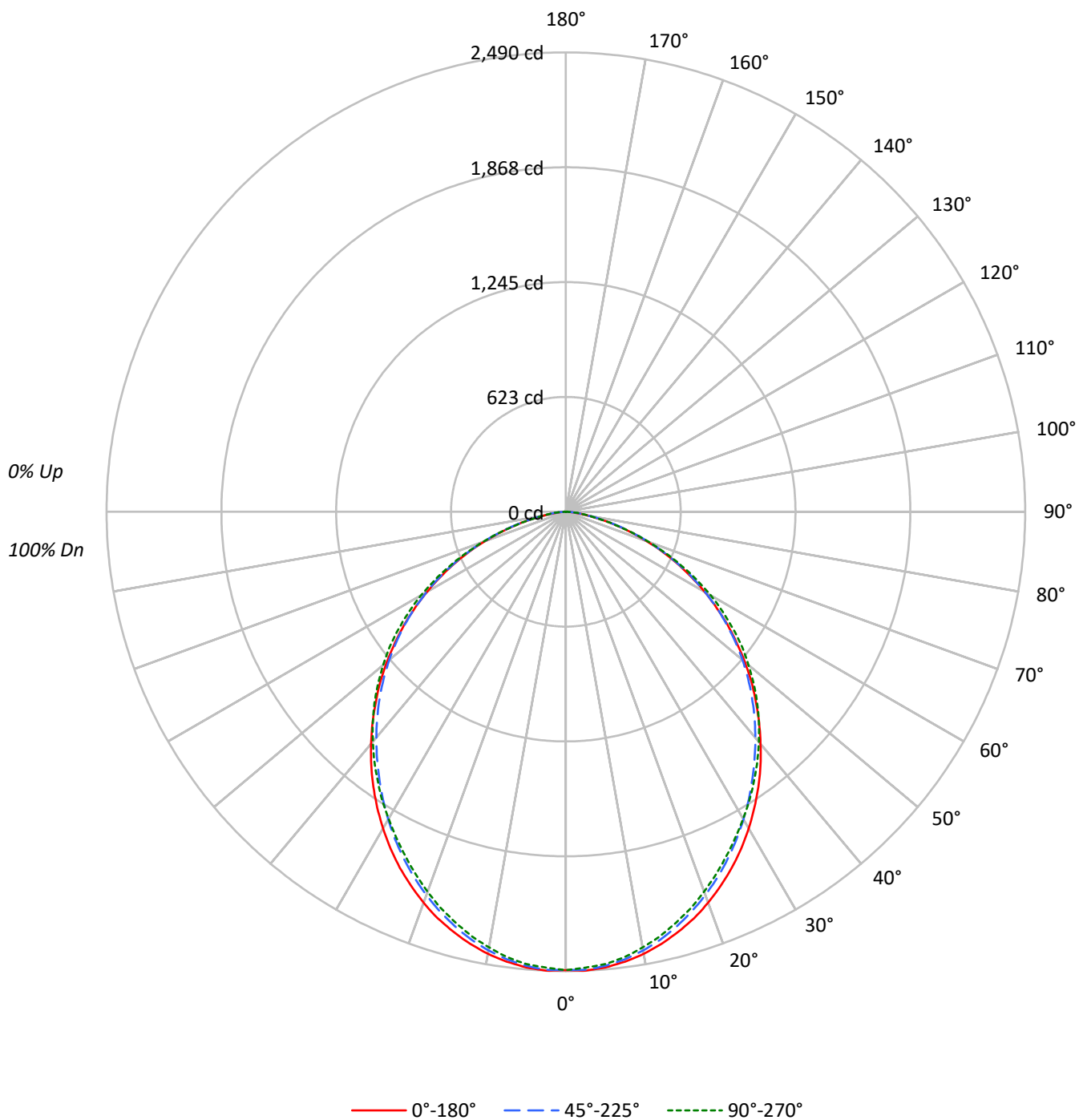
Lumens per Lamp: N/A
Luminaire Lumens: 6064.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	91	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°	6686	6686	6686
5°	6696	6675	6646
10°	6648	6598	6553
15°	6566	6479	6424
20°	6458	6331	6277
25°	6322	6165	6114
30°	6160	5983	5970
35°	5978	5793	5845
40°	5769	5615	5718
45°	5545	5431	5584
50°	5301	5232	5411
55°	5020	4993	5189
60°	4682	4695	4885
65°	4255	4294	4408
70°	3671	3735	3766
75°	2923	3002	2929
80°	1973	2047	2010
85°	1007	1337	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	3.9
10°-20°	655.2	10.8
20°-30°	959.1	15.8
30°-40°	1113.7	18.4
40°-50°	1113.0	18.4
50°-60°	959.6	15.8
60°-70°	668.4	11.0
70°-80°	305.5	5.0
80°-90°	55.8	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°	1848.0	30.5
0°-40°	2961.7	48.8
0°-60°	5034.3	83.0
0°-90°	6064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2479	2469	2471	2457	2460	235
15°	2357	2341	2326	2304	2306	664
25°	2129	2107	2076	2056	2059	980
35°	1820	1792	1764	1766	1779	1137
45°	1457	1433	1427	1450	1467	1124
55°	1070	1052	1064	1094	1106	956
65°	668	661	674	685	692	661
75°	281	279	289	284	282	302
85°	33	36	43	51	55	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2484.5	2484.5	2484.5	2484.5	2484.5
2.5°	2489.7	2480.9	2484.5	2474.3	2473.1
5°	2478.7	2469.3	2470.9	2457.4	2460.5
7.5°	2459.7	2449.0	2447.2	2432.3	2435.2
10°	2433.0	2420.2	2414.8	2396.5	2398.2
12.5°	2399.1	2384.9	2374.8	2353.9	2356.7
15°	2356.9	2341.0	2325.6	2304.0	2305.8
17.5°	2310.4	2293.5	2271.2	2248.5	2253.0
20°	2255.2	2237.0	2210.8	2187.1	2192.0
22.5°	2194.3	2173.7	2146.6	2123.3	2126.4
25°	2129.2	2106.7	2076.2	2055.5	2059.3
27.5°	2058.5	2033.4	2002.8	1984.6	1990.5
30°	1982.5	1956.3	1925.6	1913.1	1921.2
32.5°	1902.4	1875.9	1846.3	1841.5	1853.3
35°	1819.6	1791.5	1763.5	1766.3	1779.3
37.5°	1733.5	1706.0	1681.6	1691.6	1705.1
40°	1642.3	1616.8	1598.3	1613.1	1627.7
42.5°	1550.7	1526.2	1513.7	1533.7	1549.3
45°	1457.0	1433.0	1427.2	1450.4	1467.2
47.5°	1364.3	1339.8	1340.0	1366.1	1381.2
50°	1266.2	1244.9	1249.7	1277.6	1292.5
52.5°	1167.6	1148.0	1157.8	1187.6	1205.2
55°	1069.9	1052.0	1064.3	1093.6	1106.1
57.5°	969.7	956.0	970.0	995.8	1008.0
60°	869.9	857.4	872.4	896.2	907.7
62.5°	769.0	758.6	774.2	793.5	800.4
65°	668.2	661.0	674.3	685.3	692.2
67.5°	569.1	562.2	575.3	585.1	587.1
70°	466.6	463.1	474.7	479.4	478.6
72.5°	372.4	368.5	378.3	378.5	375.7
75°	281.1	279.3	288.7	283.7	281.7
77.5°	198.0	200.4	203.8	199.5	198.0
80°	127.3	132.0	132.1	131.3	129.7
82.5°	71.3	75.1	77.1	85.4	88.6
85°	32.6	36.2	43.3	51.3	54.7
87.5°	11.0	14.0	18.1	19.4	18.4
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	17.53	19.11	17.89	19.42	19.74	17.81	19.39	18.17	19.71	20.02
	3H	18.99	20.41	19.37	20.74	21.10	19.25	20.68	19.63	21.00	21.36
	4H	19.41	20.75	19.81	21.10	21.47	19.65	20.99	20.05	21.34	21.71
	6H	19.62	20.85	20.03	21.22	21.61	19.84	21.08	20.25	21.44	21.83
	8H	19.64	20.82	20.07	21.21	21.61	19.88	21.06	20.30	21.44	21.84
	12H	19.64	20.77	20.07	21.15	21.58	19.90	21.03	20.33	21.41	21.84
4H	2H	18.09	19.43	18.49	19.78	20.16	18.32	19.66	18.72	20.01	20.38
	3H	19.73	20.84	20.14	21.24	21.64	19.95	21.06	20.36	21.46	21.86
	4H	20.24	21.24	20.67	21.65	22.09	20.44	21.44	20.87	21.85	22.29
	6H	20.52	21.39	20.98	21.83	22.29	20.70	21.57	21.16	22.01	22.47
	8H	20.56	21.37	21.02	21.82	22.28	20.76	21.57	21.22	22.01	22.48
	12H	20.57	21.30	21.05	21.78	22.25	20.80	21.53	21.28	22.01	22.48
8H	4H	20.42	21.23	20.88	21.68	22.14	20.60	21.41	21.06	21.86	22.32
	6H	20.76	21.43	21.25	21.92	22.40	20.92	21.59	21.42	22.08	22.56
	8H	20.83	21.43	21.34	21.93	22.42	21.01	21.61	21.52	22.12	22.61
	12H	20.86	21.39	21.37	21.88	22.44	21.09	21.62	21.60	22.11	22.68
12H	4H	20.42	21.15	20.90	21.62	22.09	20.60	21.33	21.08	21.80	22.27
	6H	20.76	21.36	21.27	21.87	22.35	20.92	21.52	21.43	22.03	22.51
	8H	20.86	21.39	21.37	21.88	22.44	21.04	21.57	21.55	22.06	22.63