

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: P1498096

Luminaire Tested: MAE-G-2-120-1HI-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

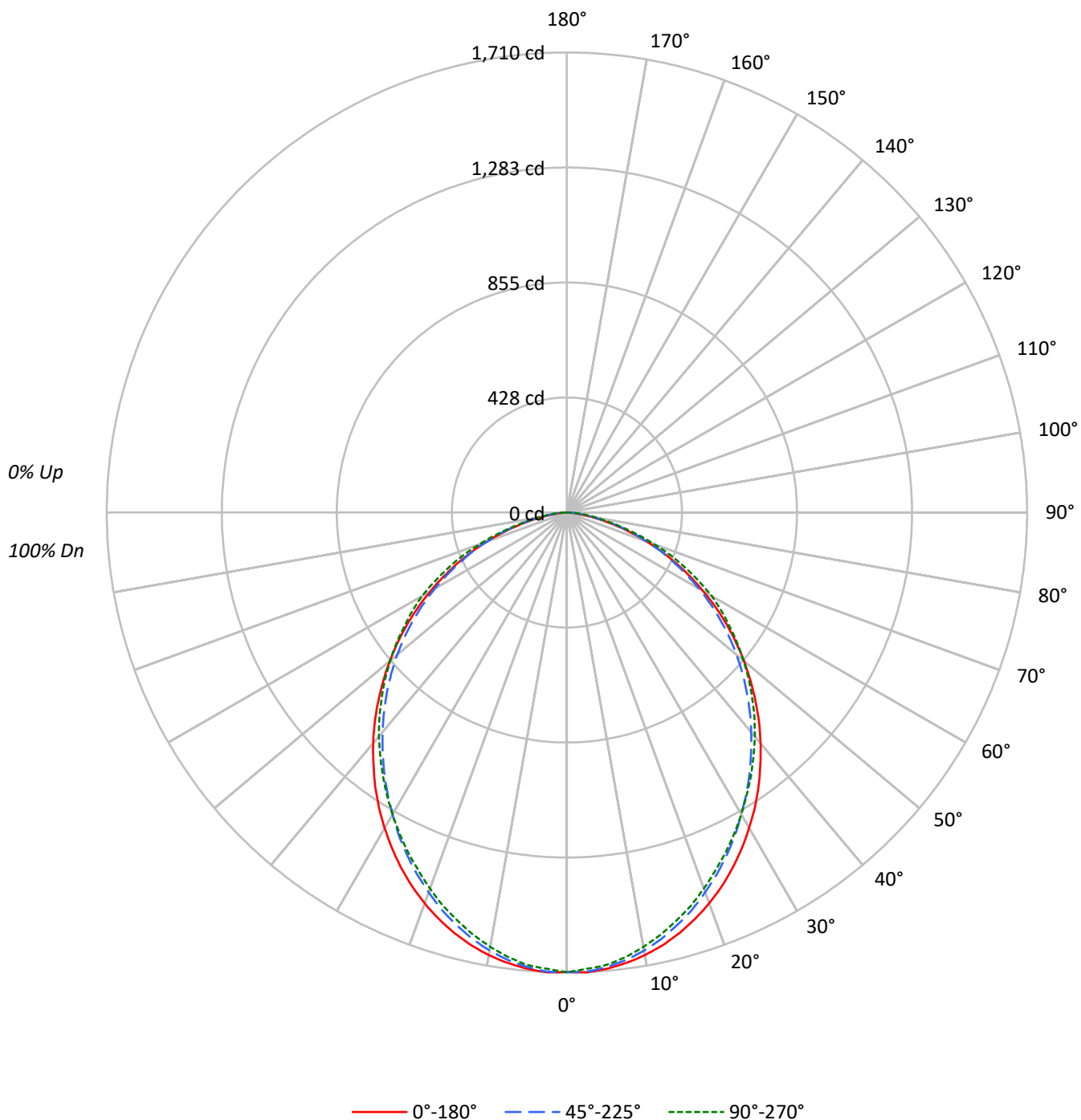
Lumens per Lamp: N/A
Luminaire Lumens: 4099.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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: P1498096

CATALOG NUMBER: MAE-G-2-120-1HI-STD-30-90-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	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	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	56		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4598	4598	4598
5°	4599	4582	4561
10°	4565	4518	4479
15°	4507	4421	4375
20°	4427	4302	4260
25°	4328	4172	4142
30°	4208	4026	4025
35°	4081	3888	3917
40°	3935	3743	3816
45°	3772	3599	3703
50°	3599	3445	3586
55°	3398	3263	3459
60°	3150	3054	3343
65°	2865	2780	3092
70°	2483	2489	2732
75°	1980	2101	2205
80°	1365	1598	1712
85°	763	1201	1550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3772 cd/sqm

TEST NUMBER: P1498096

CATALOG NUMBER: MAE-G-2-120-1HI-STD-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.9
10°-20°	447.7	10.9
20°-30°	651.2	15.9
30°-40°	750.3	18.3
40°-50°	743.5	18.1
50°-60°	637.1	15.5
60°-70°	448.4	10.9
70°-80°	215.4	5.3
80°-90°	45.9	1.1
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°	1259.3	30.7
0°-40°	2009.6	49.0
0°-60°	3390.3	82.7
0°-90°	4099.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1702	1701	1696	1685	1688	161
15°	1618	1610	1587	1568	1570	456
25°	1458	1438	1405	1390	1395	671
35°	1242	1216	1184	1183	1192	776
45°	991	967	946	961	973	765
55°	724	702	696	720	737	646
65°	450	433	437	471	486	445
75°	190	183	202	213	212	206
85°	25	30	39	47	50	35
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-1HI-STD-30-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.5	1708.5	1708.5	1708.5	1708.5
2.5°	1710.5	1711.8	1708.5	1696.0	1697.9
5°	1702.5	1701.0	1696.2	1684.8	1688.5
7.5°	1688.9	1686.7	1678.0	1664.7	1667.1
10°	1670.7	1666.3	1653.6	1637.1	1639.3
12.5°	1647.3	1641.5	1623.6	1605.1	1607.6
15°	1617.9	1609.5	1587.0	1567.8	1570.5
17.5°	1584.1	1574.8	1547.6	1527.0	1532.5
20°	1545.8	1533.1	1502.1	1482.8	1487.7
22.5°	1503.8	1487.7	1455.3	1437.1	1441.3
25°	1457.5	1437.8	1405.0	1390.0	1395.0
27.5°	1407.5	1385.9	1352.6	1339.1	1346.3
30°	1354.3	1331.1	1295.6	1287.6	1295.4
32.5°	1299.6	1275.1	1240.3	1236.5	1244.3
35°	1242.2	1215.5	1183.6	1182.7	1192.4
37.5°	1180.8	1155.3	1123.9	1130.5	1139.6
40°	1120.1	1093.6	1065.4	1075.5	1086.3
42.5°	1057.0	1031.5	1006.3	1018.8	1031.3
45°	991.1	967.2	945.6	961.0	973.1
47.5°	925.1	901.2	884.7	902.0	916.1
50°	859.6	836.8	822.8	843.0	856.5
52.5°	790.9	769.3	760.3	781.3	798.1
55°	724.2	702.1	695.5	719.8	737.3
57.5°	655.3	637.7	632.2	659.8	681.3
60°	585.3	567.8	567.5	601.1	621.1
62.5°	517.1	499.8	501.0	539.4	553.2
65°	449.9	432.7	436.6	470.7	485.6
67.5°	383.5	367.5	377.5	409.4	419.0
70°	315.6	301.5	316.4	342.8	347.2
72.5°	252.2	240.1	259.3	276.9	277.4
75°	190.4	183.1	202.1	213.0	212.1
77.5°	136.1	132.4	149.3	156.0	155.5
80°	88.1	90.1	103.1	108.1	110.5
82.5°	51.3	55.6	65.7	76.0	78.6
85°	24.7	29.9	38.9	46.9	50.2
87.5°	8.6	12.1	16.1	17.9	17.4
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	16.09	17.67	16.45	17.98	18.30	16.34	17.92	16.71	18.24	18.55
	3H	17.53	18.95	17.91	19.28	19.64	17.96	19.38	18.34	19.71	20.07
	4H	17.96	19.29	18.35	19.64	20.02	18.44	19.78	18.84	20.13	20.50
	6H	18.17	19.41	18.58	19.77	20.17	18.71	19.95	19.12	20.31	20.71
	8H	18.21	19.38	18.63	19.77	20.17	18.79	19.97	19.22	20.36	20.76
	12H	18.21	19.34	18.64	19.72	20.15	18.84	19.97	19.27	20.36	20.78
4H	2H	16.61	17.95	17.01	18.30	18.67	16.82	18.16	17.22	18.50	18.88
	3H	18.24	19.35	18.65	19.75	20.15	18.64	19.75	19.05	20.15	20.55
	4H	18.75	19.75	19.18	20.16	20.60	19.23	20.23	19.66	20.65	21.09
	6H	19.04	19.92	19.50	20.36	20.82	19.60	20.47	20.06	20.91	21.37
	8H	19.10	19.91	19.56	20.36	20.82	19.71	20.53	20.17	20.97	21.44
	12H	19.12	19.85	19.60	20.33	20.80	19.80	20.53	20.28	21.01	21.48
8H	4H	18.97	19.78	19.43	20.23	20.69	19.40	20.22	19.87	20.66	21.13
	6H	19.33	20.00	19.82	20.49	20.97	19.85	20.53	20.35	21.01	21.49
	8H	19.41	20.02	19.93	20.53	21.01	20.01	20.62	20.52	21.12	21.61
	12H	19.46	20.00	19.97	20.49	21.05	20.16	20.69	20.66	21.18	21.74
12H	4H	18.98	19.71	19.46	20.18	20.65	19.40	20.13	19.88	20.61	21.08
	6H	19.35	19.95	19.86	20.46	20.95	19.85	20.46	20.37	20.97	21.45
	8H	19.47	20.00	19.98	20.50	21.06	20.06	20.59	20.57	21.08	21.65