

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: P1498087

Luminaire Tested: MAE-G-2-120-1HI-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498087
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-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

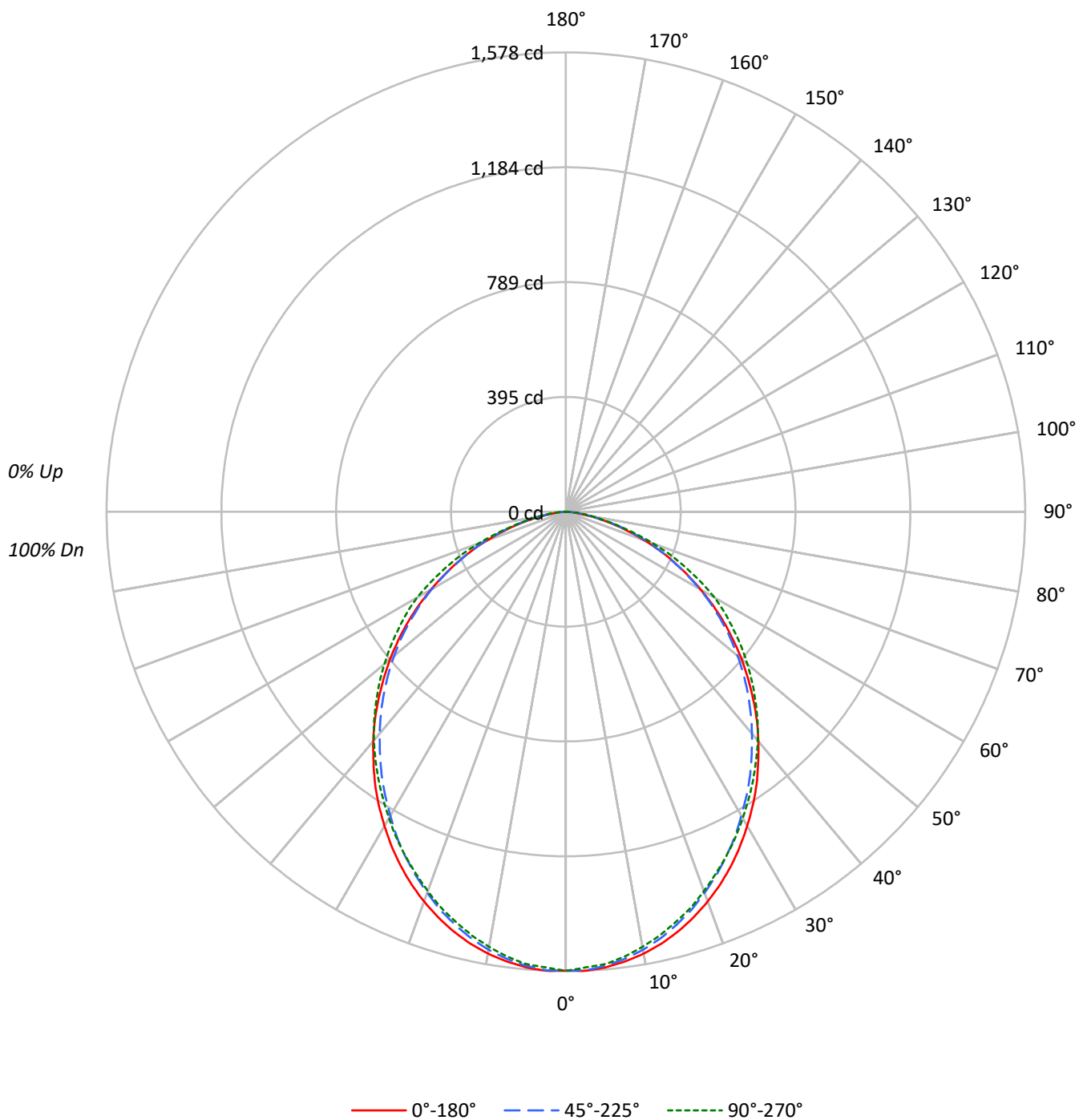
Lumens per Lamp: N/A
Luminaire Lumens: 3808.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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: P1498087

CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	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	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4242	4242	4242
5°	4243	4229	4213
10°	4211	4174	4147
15°	4156	4092	4064
20°	4080	3989	3971
25°	3986	3876	3874
30°	3872	3747	3776
35°	3753	3625	3686
40°	3616	3495	3602
45°	3462	3365	3506
50°	3300	3224	3406
55°	3112	3057	3292
60°	2880	2863	3179
65°	2614	2599	2906
70°	2262	2308	2515
75°	1796	1910	1948
80°	1234	1399	1435
85°	682	1016	1275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3506 cd/sqm

TEST NUMBER: P1498087

CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.9
10°-20°	414.4	10.9
20°-30°	604.6	15.9
30°-40°	698.7	18.3
40°-50°	694.1	18.2
50°-60°	596.0	15.7
60°-70°	417.5	11.0
70°-80°	195.1	5.1
80°-90°	39.4	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°	1167.2	30.7
0°-40°	1865.9	49.0
0°-60°	3156.0	82.9
0°-90°	3808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1571	1569	1565	1556	1560	149
15°	1492	1486	1469	1456	1459	420
25°	1342	1328	1305	1298	1305	618
35°	1142	1123	1104	1110	1122	714
45°	910	894	884	906	921	702
55°	663	649	652	682	702	592
65°	410	399	408	442	456	406
75°	173	168	184	190	187	187
85°	22	26	33	39	41	31
90°	0	0	0	0	0	

TEST NUMBER: P1498087

CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.4	1576.4	1576.4	1576.4	1576.4
2.5°	1578.3	1579.4	1576.4	1565.5	1566.8
5°	1570.7	1569.2	1565.4	1556.3	1559.6
7.5°	1558.0	1556.2	1549.3	1539.0	1541.3
10°	1541.1	1537.6	1527.7	1515.1	1517.5
12.5°	1519.3	1515.0	1501.4	1487.8	1490.7
15°	1491.9	1485.5	1468.7	1455.6	1458.9
17.5°	1460.3	1453.8	1433.9	1419.9	1426.1
20°	1424.6	1415.3	1392.9	1380.6	1386.6
22.5°	1385.6	1373.6	1350.8	1339.8	1345.6
25°	1342.4	1327.6	1305.3	1298.0	1304.6
27.5°	1295.8	1279.8	1258.0	1252.1	1261.3
30°	1246.2	1229.2	1205.8	1205.5	1215.3
32.5°	1195.6	1177.9	1155.2	1159.2	1169.1
35°	1142.5	1122.9	1103.5	1110.1	1122.1
37.5°	1085.5	1067.2	1048.5	1062.6	1074.2
40°	1029.4	1010.4	994.9	1012.3	1025.5
42.5°	971.1	953.1	940.3	960.0	975.2
45°	909.8	893.8	884.2	906.5	921.3
47.5°	848.9	832.6	827.6	851.8	868.5
50°	788.3	773.3	770.2	797.0	813.6
52.5°	725.3	710.7	712.1	739.5	759.1
55°	663.4	648.6	651.5	681.9	701.6
57.5°	600.0	589.2	592.4	625.1	648.7
60°	535.2	524.2	531.9	569.5	590.6
62.5°	472.5	461.4	469.1	509.8	523.2
65°	410.5	399.2	408.2	441.8	456.4
67.5°	349.9	339.0	352.1	381.8	390.8
70°	287.5	278.0	293.4	316.9	319.7
72.5°	229.5	221.0	238.5	252.3	251.1
75°	172.7	168.2	183.7	190.2	187.4
77.5°	123.4	121.0	133.6	135.9	133.4
80°	79.6	81.5	90.3	91.2	92.6
82.5°	46.1	49.6	56.1	63.8	65.2
85°	22.1	26.3	32.9	39.0	41.3
87.5°	7.7	10.5	13.5	14.9	14.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498087

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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	15.78	17.37	16.15	17.68	17.99	16.23	17.81	16.59	18.13	18.44
	3H	17.21	18.63	17.59	18.96	19.32	17.79	19.22	18.17	19.54	19.90
	4H	17.63	18.97	18.03	19.31	19.69	18.22	19.56	18.62	19.91	20.29
	6H	17.84	19.07	18.25	19.44	19.83	18.44	19.68	18.86	20.05	20.44
	8H	17.87	19.05	18.29	19.44	19.84	18.50	19.68	18.93	20.07	20.47
	12H	17.87	19.00	18.30	19.38	19.81	18.54	19.67	18.97	20.05	20.48
4H	2H	16.32	17.66	16.72	18.01	18.39	16.69	18.03	17.09	18.37	18.75
	3H	17.93	19.05	18.34	19.45	19.85	18.45	19.56	18.86	19.96	20.36
	4H	18.43	19.44	18.87	19.85	20.29	18.99	19.99	19.42	20.40	20.84
	6H	18.72	19.59	19.18	20.03	20.49	19.29	20.16	19.75	20.61	21.06
	8H	18.77	19.58	19.23	20.03	20.49	19.38	20.19	19.84	20.63	21.10
	12H	18.79	19.52	19.27	19.99	20.47	19.44	20.17	19.93	20.65	21.12
8H	4H	18.65	19.46	19.11	19.90	20.37	19.15	19.96	19.61	20.40	20.87
	6H	18.99	19.67	19.49	20.16	20.63	19.52	20.19	20.02	20.68	21.16
	8H	19.07	19.67	19.58	20.18	20.67	19.65	20.25	20.16	20.76	21.24
	12H	19.12	19.65	19.63	20.14	20.71	19.76	20.29	20.27	20.78	21.35
12H	4H	18.65	19.38	19.13	19.86	20.33	19.14	19.87	19.63	20.35	20.82
	6H	19.00	19.61	19.52	20.11	20.60	19.52	20.12	20.03	20.63	21.12
	8H	19.12	19.65	19.63	20.14	20.71	19.69	20.22	20.19	20.71	21.27