

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: P1498090

Luminaire Tested: MAE-G-2-120-1HI-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498090
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-50-90-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

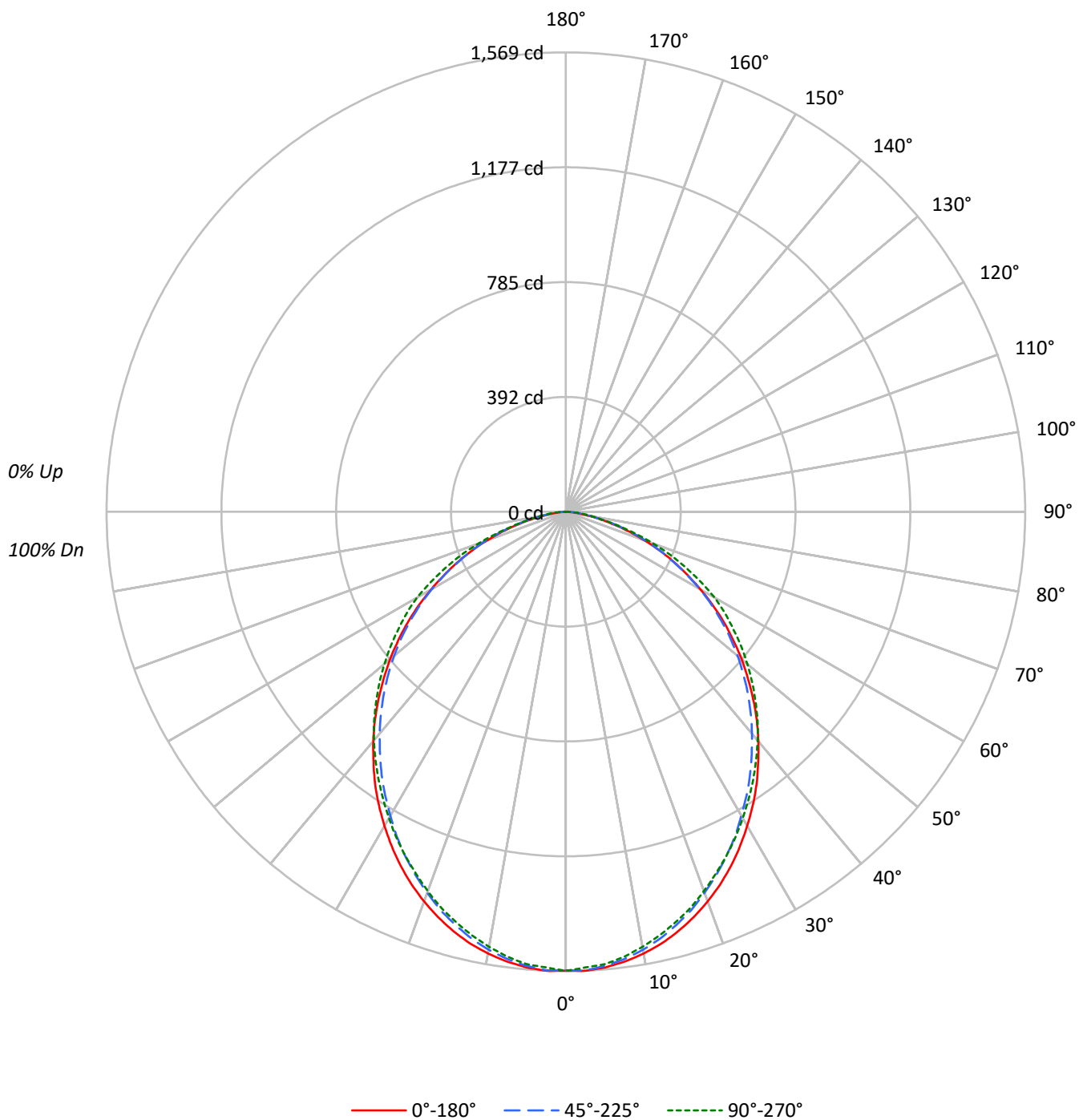
Lumens per Lamp: N/A
Luminaire Lumens: 3786.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498090

CATALOG NUMBER: MAE-G-2-120-1HI-LO-50-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498090

CATALOG NUMBER: MAE-G-2-120-1HI-LO-50-90-VRDCPH

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°	4218	4218	4218
5°	4219	4204	4189
10°	4186	4150	4123
15°	4132	4068	4041
20°	4056	3966	3948
25°	3963	3853	3851
30°	3850	3725	3755
35°	3732	3604	3665
40°	3595	3475	3581
45°	3443	3346	3486
50°	3281	3206	3386
55°	3095	3039	3273
60°	2864	2846	3160
65°	2599	2584	2890
70°	2249	2294	2500
75°	1786	1899	1937
80°	1226	1392	1426
85°	682	1013	1269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3486 cd/sqm

TEST NUMBER: P1498090

CATALOG NUMBER: MAE-G-2-120-1HI-LO-50-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.9
10°-20°	412.0	10.9
20°-30°	601.1	15.9
30°-40°	694.7	18.3
40°-50°	690.1	18.2
50°-60°	592.5	15.7
60°-70°	415.0	11.0
70°-80°	194.0	5.1
80°-90°	39.2	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°	1160.5	30.7
0°-40°	1855.1	49.0
0°-60°	3137.8	82.9
0°-90°	3786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1562	1560	1556	1547	1551	148
15°	1483	1477	1460	1447	1450	418
25°	1335	1320	1298	1290	1297	614
35°	1136	1116	1097	1104	1116	710
45°	905	889	879	901	916	698
55°	660	645	648	678	698	589
65°	408	397	406	439	454	404
75°	172	167	183	189	186	186
85°	22	26	33	39	41	31
90°	0	0	0	0	0	

TEST NUMBER: P1498090

CATALOG NUMBER: MAE-G-2-120-1HI-LO-50-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.4	1567.4	1567.4	1567.4	1567.4
2.5°	1569.3	1570.3	1567.4	1556.5	1557.8
5°	1561.7	1560.2	1556.4	1547.4	1550.6
7.5°	1549.0	1547.2	1540.4	1530.1	1532.4
10°	1532.1	1528.6	1518.8	1506.3	1508.7
12.5°	1510.5	1506.2	1492.7	1479.2	1482.0
15°	1483.3	1476.9	1460.2	1447.2	1450.5
17.5°	1451.8	1445.4	1425.7	1411.6	1417.8
20°	1416.3	1407.1	1384.9	1372.6	1378.7
22.5°	1377.5	1365.6	1342.9	1332.1	1337.8
25°	1334.7	1319.9	1297.8	1290.5	1297.1
27.5°	1288.3	1272.4	1250.7	1244.9	1254.0
30°	1239.0	1222.2	1198.8	1198.5	1208.4
32.5°	1188.7	1171.0	1148.5	1152.5	1162.4
35°	1135.9	1116.4	1097.1	1103.7	1115.6
37.5°	1079.2	1061.1	1042.6	1056.5	1068.0
40°	1023.5	1004.5	989.2	1006.5	1019.5
42.5°	965.4	947.6	934.9	954.4	969.5
45°	904.6	888.6	879.1	901.2	916.0
47.5°	844.0	827.8	822.8	846.9	863.5
50°	783.8	768.8	765.8	792.4	808.9
52.5°	721.2	706.6	708.0	735.3	754.7
55°	659.6	644.8	647.7	678.0	697.6
57.5°	596.5	585.8	589.0	621.5	644.9
60°	532.1	521.3	528.8	566.2	587.2
62.5°	469.7	458.7	466.4	506.8	520.2
65°	408.2	396.9	405.8	439.2	453.8
67.5°	347.9	337.0	350.1	379.6	388.5
70°	285.8	276.4	291.6	315.0	317.8
72.5°	228.1	219.7	237.1	250.8	249.6
75°	171.8	167.2	182.6	189.1	186.3
77.5°	122.7	120.3	132.9	135.1	132.7
80°	79.1	80.9	89.8	90.7	92.0
82.5°	45.9	49.3	55.8	63.5	64.9
85°	22.1	26.2	32.8	38.8	41.1
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: P1498090

CATALOG NUMBER: MAE-G-2-120-1HI-LO-50-90-VRDCPH

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	15.76	17.35	16.13	17.66	17.97	16.21	17.79	16.57	18.11	18.42
	3H	17.19	18.61	17.57	18.94	19.30	17.77	19.20	18.15	19.52	19.88
	4H	17.61	18.95	18.01	19.29	19.67	18.20	19.54	18.60	19.89	20.27
	6H	17.82	19.05	18.23	19.42	19.81	18.42	19.66	18.84	20.03	20.42
	8H	17.85	19.03	18.27	19.42	19.82	18.48	19.66	18.91	20.05	20.45
	12H	17.85	18.98	18.28	19.36	19.79	18.52	19.65	18.95	20.03	20.46
4H	2H	16.30	17.64	16.70	17.99	18.37	16.67	18.01	17.07	18.35	18.73
	3H	17.91	19.03	18.32	19.43	19.83	18.43	19.54	18.84	19.94	20.34
	4H	18.41	19.42	18.85	19.83	20.27	18.97	19.97	19.40	20.38	20.82
	6H	18.70	19.57	19.16	20.01	20.47	19.27	20.14	19.73	20.59	21.04
	8H	18.75	19.56	19.21	20.01	20.47	19.36	20.17	19.82	20.61	21.08
	12H	18.77	19.50	19.25	19.97	20.44	19.42	20.15	19.91	20.63	21.10
8H	4H	18.63	19.44	19.09	19.88	20.35	19.13	19.94	19.59	20.38	20.85
	6H	18.97	19.65	19.47	20.14	20.61	19.50	20.17	20.00	20.66	21.14
	8H	19.05	19.65	19.56	20.16	20.65	19.63	20.23	20.14	20.74	21.22
	12H	19.10	19.63	19.61	20.12	20.68	19.74	20.27	20.25	20.76	21.33
12H	4H	18.63	19.36	19.11	19.84	20.31	19.12	19.85	19.60	20.33	20.80
	6H	18.98	19.59	19.49	20.09	20.58	19.50	20.10	20.01	20.61	21.10
	8H	19.10	19.63	19.61	20.12	20.69	19.67	20.20	20.17	20.69	21.25