

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: P1498612

Luminaire Tested: MAE-G-2-120-3HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

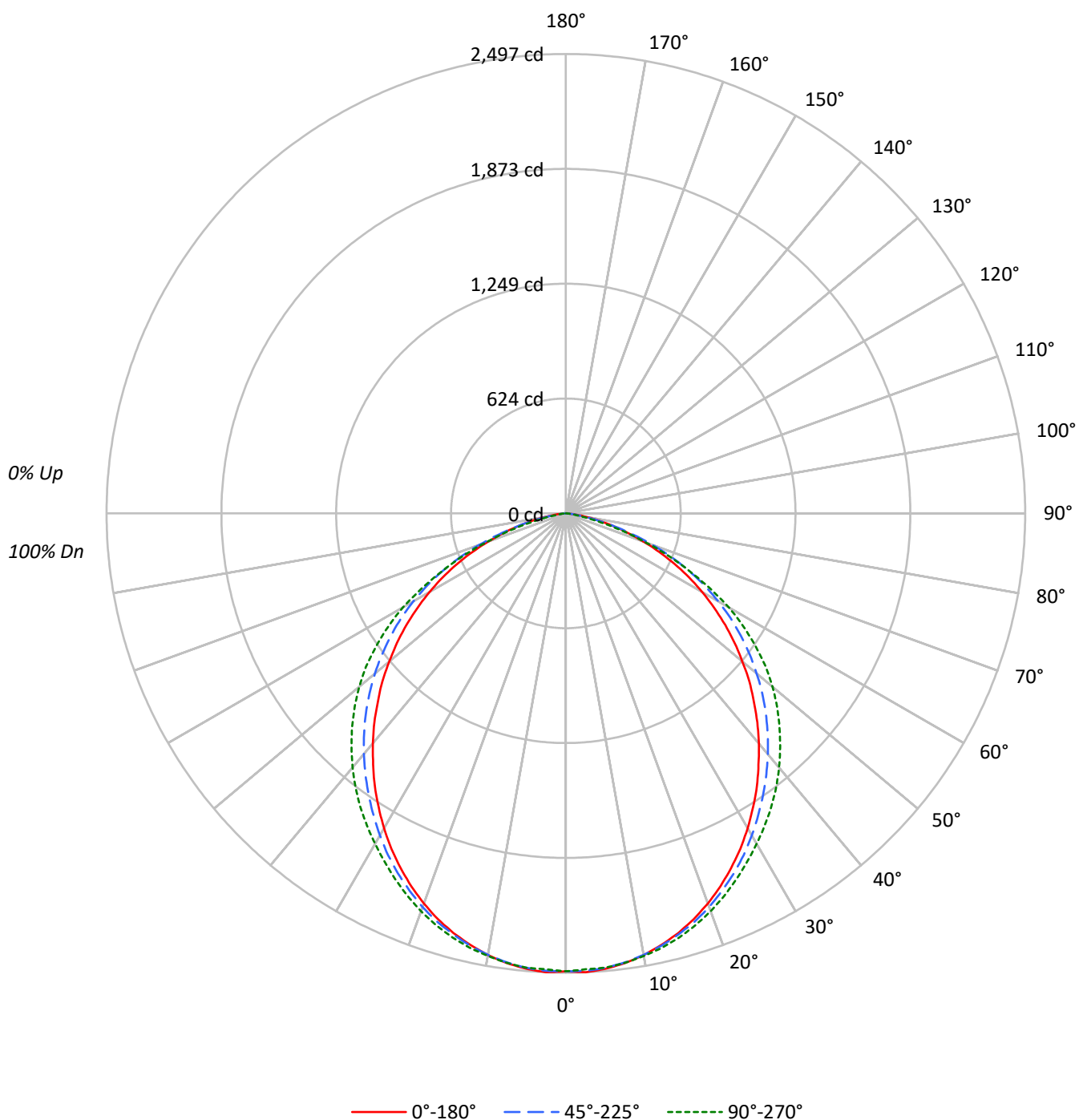
Lumens per Lamp: N/A
Luminaire Lumens: 6308.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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: P1498612

CATALOG NUMBER: MAE-G-2-120-3HI-40-90-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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6697	6697	6697
5°	6712	6698	6695
10°	6662	6659	6675
15°	6578	6598	6647
20°	6463	6522	6590
25°	6313	6414	6515
30°	6142	6281	6446
35°	5949	6138	6397
40°	5733	6000	6333
45°	5499	5852	6252
50°	5244	5671	6141
55°	4962	5451	5904
60°	4605	5151	5510
65°	4159	4697	4719
70°	3549	3944	3667
75°	2787	2878	2256
80°	1819	1480	872
85°	871	587	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6252 cd/sqm

TEST NUMBER: P1498612

CATALOG NUMBER: MAE-G-2-120-3HI-40-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	3.7
10°-20°	667.4	10.6
20°-30°	992.7	15.7
30°-40°	1169.7	18.5
40°-50°	1186.0	18.8
50°-60°	1033.5	16.4
60°-70°	706.8	11.2
70°-80°	283.9	4.5
80°-90°	32.9	0.5
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°	1895.2	30.0
0°-40°	3064.9	48.6
0°-60°	5284.4	83.8
0°-90°	6308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2485	2470	2480	2477	2478	236
15°	2361	2351	2368	2378	2386	665
25°	2126	2127	2160	2176	2194	979
35°	1811	1819	1868	1914	1947	1131
45°	1445	1464	1538	1607	1643	1115
55°	1058	1080	1162	1235	1258	944
65°	653	682	738	743	741	646
75°	268	286	277	238	217	288
85°	28	25	19	17	15	43
90°	0	0	0	0	0	

TEST NUMBER: P1498612

CATALOG NUMBER: MAE-G-2-120-3HI-40-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2496.9	2480.2	2488.8	2487.1	2480.7
5°	2484.8	2469.8	2479.6	2476.8	2478.4
7.5°	2465.2	2451.4	2461.8	2461.2	2464.0
10°	2438.2	2424.4	2437.1	2439.4	2442.8
12.5°	2402.5	2391.0	2406.5	2411.1	2418.0
15°	2361.0	2350.7	2368.5	2378.3	2385.8
17.5°	2312.7	2304.0	2327.1	2336.3	2346.6
20°	2256.8	2250.6	2277.6	2286.2	2301.2
22.5°	2194.8	2191.3	2219.5	2232.7	2250.0
25°	2126.2	2126.9	2160.2	2175.8	2194.1
27.5°	2054.4	2055.5	2093.5	2115.3	2134.9
30°	1976.6	1980.1	2021.5	2048.6	2074.5
32.5°	1894.4	1901.2	1946.1	1983.0	2011.8
35°	1810.9	1818.9	1868.5	1914.5	1947.3
37.5°	1720.6	1733.8	1789.7	1844.4	1878.2
40°	1632.0	1645.2	1707.9	1768.3	1802.9
42.5°	1540.5	1557.2	1624.0	1691.2	1724.6
45°	1445.0	1464.5	1537.6	1606.7	1642.9
47.5°	1353.4	1370.7	1447.8	1519.8	1557.2
50°	1252.7	1274.6	1354.6	1430.0	1466.9
52.5°	1156.7	1176.8	1259.0	1336.3	1369.6
55°	1057.7	1080.1	1161.9	1234.9	1258.5
57.5°	956.3	983.4	1062.3	1123.3	1145.7
60°	855.7	882.7	957.0	1007.1	1023.7
62.5°	755.5	784.4	849.4	882.7	882.7
65°	653.1	682.5	737.7	743.4	741.1
67.5°	550.7	580.1	622.1	611.7	604.8
70°	451.1	476.5	501.3	482.2	466.1
72.5°	354.5	378.6	382.7	355.1	334.9
75°	268.1	286.0	276.8	237.7	217.0
77.5°	187.0	197.4	177.8	138.1	121.5
80°	117.4	122.0	95.5	67.3	56.3
82.5°	63.3	63.8	41.5	34.0	31.7
85°	28.2	25.3	19.0	16.7	15.0
87.5°	9.8	8.6	6.9	6.4	5.2
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	19.12	17.90	19.43	19.75	18.52	20.10	18.88	20.41	20.73
	3H	18.94	20.36	19.32	20.69	21.05	19.72	21.14	20.10	21.47	21.83
	4H	19.34	20.67	19.74	21.02	21.40	19.94	21.27	20.34	21.62	22.00
	6H	19.51	20.74	19.92	21.11	21.50	19.96	21.19	20.37	21.55	21.94
	8H	19.53	20.70	19.95	21.09	21.49	19.93	21.11	20.36	21.50	21.90
	12H	19.52	20.64	19.95	21.02	21.45	19.91	21.03	20.34	21.41	21.84
4H	2H	18.20	19.54	18.60	19.89	20.26	18.99	20.33	19.39	20.68	21.05
	3H	19.77	20.88	20.18	21.28	21.68	20.36	21.47	20.77	21.87	22.27
	4H	20.25	21.24	20.68	21.66	22.09	20.64	21.63	21.07	22.05	22.48
	6H	20.49	21.35	20.94	21.79	22.25	20.69	21.55	21.14	21.99	22.45
	8H	20.51	21.32	20.97	21.76	22.23	20.66	21.47	21.13	21.91	22.38
	12H	20.51	21.23	20.99	21.71	22.18	20.64	21.36	21.12	21.84	22.31
8H	4H	20.39	21.20	20.86	21.64	22.11	20.75	21.56	21.22	22.00	22.47
	6H	20.67	21.33	21.17	21.82	22.30	20.82	21.48	21.31	21.97	22.44
	8H	20.71	21.30	21.22	21.81	22.30	20.79	21.38	21.31	21.89	22.38
	12H	20.72	21.25	21.23	21.74	22.30	20.78	21.30	21.29	21.79	22.36
12H	4H	20.38	21.10	20.86	21.57	22.04	20.74	21.46	21.23	21.94	22.41
	6H	20.64	21.23	21.15	21.74	22.23	20.79	21.39	21.30	21.89	22.38
	8H	20.71	21.23	21.21	21.72	22.28	20.79	21.31	21.30	21.81	22.37