

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: P1498732

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498732
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-2-120-3LO-HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

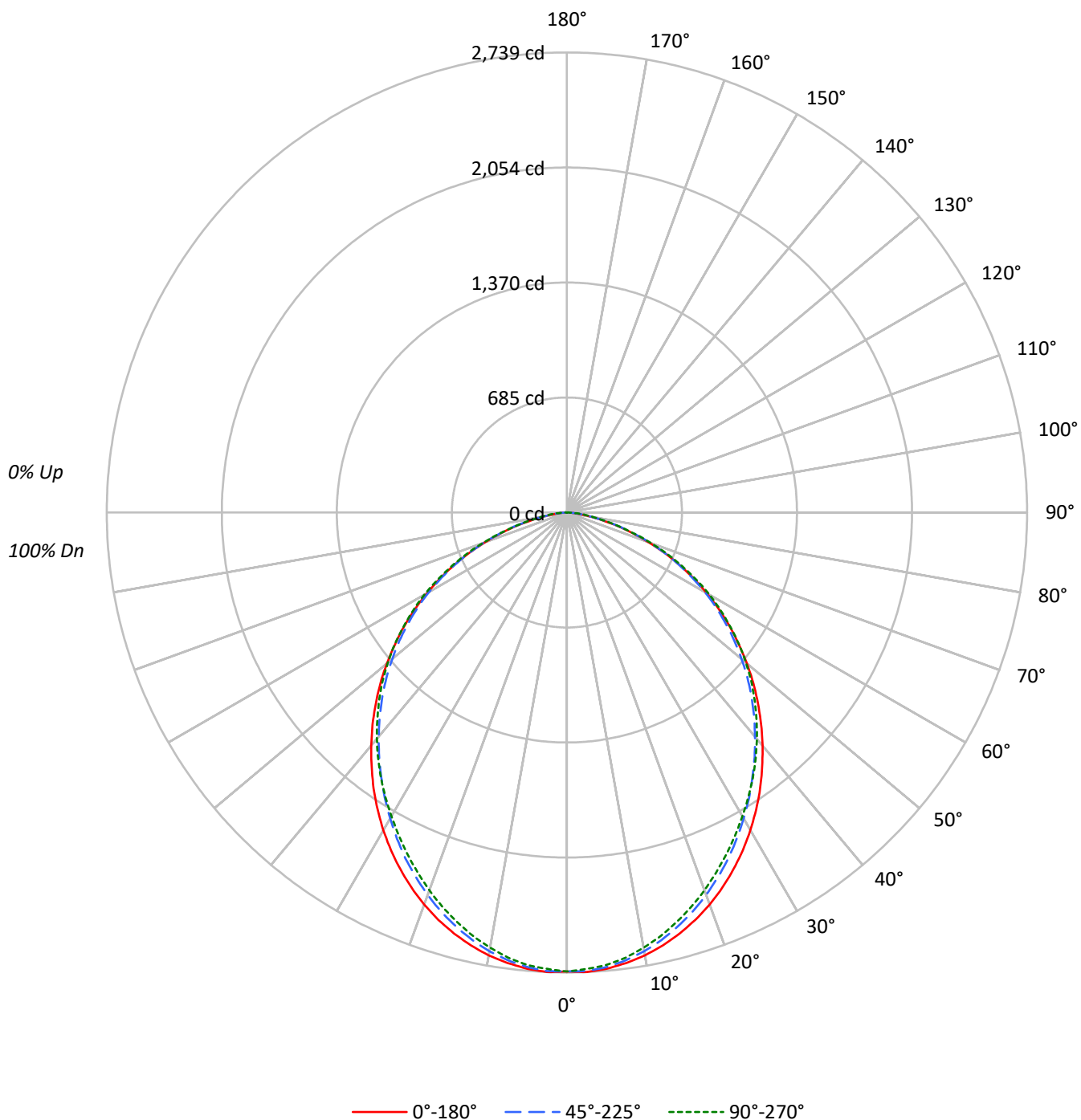
Lumens per Lamp: N/A
Luminaire Lumens: 6641.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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: P1498732

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

Luminous Intensity Polar Plot



TEST NUMBER: P1498732

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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	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		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°	7353	7353	7353
5°	7366	7339	7306
10°	7316	7248	7191
15°	7229	7108	7032
20°	7114	6939	6854
25°	6962	6748	6665
30°	6788	6537	6490
35°	6590	6326	6337
40°	6365	6120	6180
45°	6121	5911	6012
50°	5853	5683	5821
55°	5550	5422	5575
60°	5176	5097	5281
65°	4714	4677	4819
70°	4074	4125	4205
75°	3252	3391	3362
80°	2214	2405	2461
85°	1167	1661	2133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6121 cd/sqm

TEST NUMBER: P1498732

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	3.9
10°-20°	718.8	10.8
20°-30°	1050.0	15.8
30°-40°	1216.1	18.3
40°-50°	1212.5	18.3
50°-60°	1044.0	15.7
60°-70°	732.0	11.0
70°-80°	343.8	5.2
80°-90°	66.9	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°	2025.7	30.5
0°-40°	3241.8	48.8
0°-60°	5498.3	82.8
0°-90°	6641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2733	2733	2733	2733	2733	
5°	2727	2717	2717	2700	2704	259
15°	2595	2576	2551	2522	2524	731
25°	2345	2315	2273	2240	2245	1080
35°	2006	1967	1926	1917	1929	1253
45°	1608	1574	1553	1567	1580	1241
55°	1183	1154	1156	1179	1188	1056
65°	740	724	735	752	757	731
75°	313	308	326	327	323	336
85°	38	43	54	64	69	55
90°	0	0	0	0	0	

TEST NUMBER: P1498732

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2732.6	2732.6	2732.6	2732.6	2732.6
2.5°	2738.6	2730.2	2732.6	2719.5	2719.7
5°	2726.7	2717.1	2716.7	2700.1	2704.5
7.5°	2705.7	2694.4	2689.4	2670.1	2673.6
10°	2677.3	2663.0	2652.6	2629.4	2631.5
12.5°	2639.5	2623.4	2606.5	2579.2	2582.2
15°	2594.9	2576.1	2551.4	2522.1	2524.3
17.5°	2543.1	2521.3	2490.9	2457.6	2462.1
20°	2484.1	2459.1	2423.0	2388.2	2393.5
22.5°	2417.7	2390.0	2349.9	2316.2	2320.5
25°	2344.6	2314.7	2272.8	2240.5	2244.9
27.5°	2267.7	2234.2	2189.9	2162.0	2167.1
30°	2184.4	2148.8	2103.8	2080.3	2088.5
32.5°	2096.6	2059.7	2016.2	1999.9	2009.9
35°	2005.9	1966.7	1925.6	1916.9	1929.0
37.5°	1908.6	1872.8	1834.7	1833.8	1845.8
40°	1811.9	1774.7	1742.1	1746.3	1759.4
42.5°	1711.7	1676.6	1648.7	1658.8	1670.5
45°	1608.3	1574.0	1553.3	1566.9	1579.7
47.5°	1505.7	1471.7	1457.0	1473.5	1488.1
50°	1398.2	1367.0	1357.4	1378.2	1390.4
52.5°	1289.5	1260.0	1257.0	1280.0	1292.9
55°	1183.0	1154.3	1155.6	1178.8	1188.2
57.5°	1072.2	1049.3	1053.3	1075.0	1085.9
60°	961.8	940.4	947.0	970.0	981.3
62.5°	851.1	832.7	841.5	863.3	869.6
65°	740.3	723.9	734.6	751.9	756.8
67.5°	627.8	615.8	629.4	644.2	646.9
70°	517.8	505.8	524.3	535.6	534.5
72.5°	411.1	404.1	421.4	429.3	424.9
75°	312.8	308.3	326.1	326.8	323.4
77.5°	221.7	220.2	234.9	234.3	233.8
80°	142.9	146.9	155.2	159.3	158.8
82.5°	80.9	86.9	93.7	105.8	110.7
85°	37.8	42.8	53.8	64.4	69.1
87.5°	12.8	16.7	22.5	24.5	23.1
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	17.87	19.45	18.23	19.76	20.08	18.02	19.61	18.39	19.92	20.24
	3H	19.33	20.75	19.71	21.08	21.44	19.53	20.96	19.91	21.28	21.64
	4H	19.76	21.10	20.16	21.44	21.82	19.97	21.31	20.37	21.66	22.04
	6H	19.97	21.21	20.38	21.57	21.96	20.20	21.44	20.62	21.81	22.20
	8H	20.00	21.18	20.42	21.57	21.97	20.26	21.44	20.69	21.83	22.23
	12H	20.00	21.13	20.43	21.51	21.94	20.30	21.43	20.73	21.81	22.24
4H	2H	18.42	19.76	18.82	20.11	20.48	18.55	19.89	18.95	20.23	20.61
	3H	20.06	21.18	20.47	21.57	21.97	20.25	21.36	20.66	21.76	22.16
	4H	20.58	21.58	21.01	21.99	22.43	20.79	21.79	21.22	22.20	22.64
	6H	20.87	21.74	21.32	22.18	22.64	21.10	21.98	21.56	22.42	22.87
	8H	20.91	21.73	21.37	22.17	22.64	21.18	22.00	21.65	22.44	22.91
	12H	20.93	21.66	21.41	22.13	22.60	21.25	21.98	21.73	22.45	22.92
8H	4H	20.78	21.59	21.24	22.03	22.50	20.96	21.78	21.43	22.22	22.69
	6H	21.12	21.80	21.62	22.29	22.76	21.35	22.02	21.84	22.51	22.99
	8H	21.20	21.80	21.71	22.31	22.80	21.47	22.07	21.98	22.58	23.07
	12H	21.24	21.77	21.75	22.26	22.83	21.58	22.11	22.08	22.60	23.16
12H	4H	20.78	21.51	21.26	21.99	22.46	20.96	21.69	21.44	22.17	22.64
	6H	21.13	21.73	21.64	22.24	22.73	21.35	21.95	21.86	22.46	22.95
	8H	21.24	21.77	21.75	22.26	22.83	21.51	22.04	22.01	22.53	23.09