

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: P1499122

Luminaire Tested: MAE-G-4-120-1STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499122
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-4-120-1STD-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

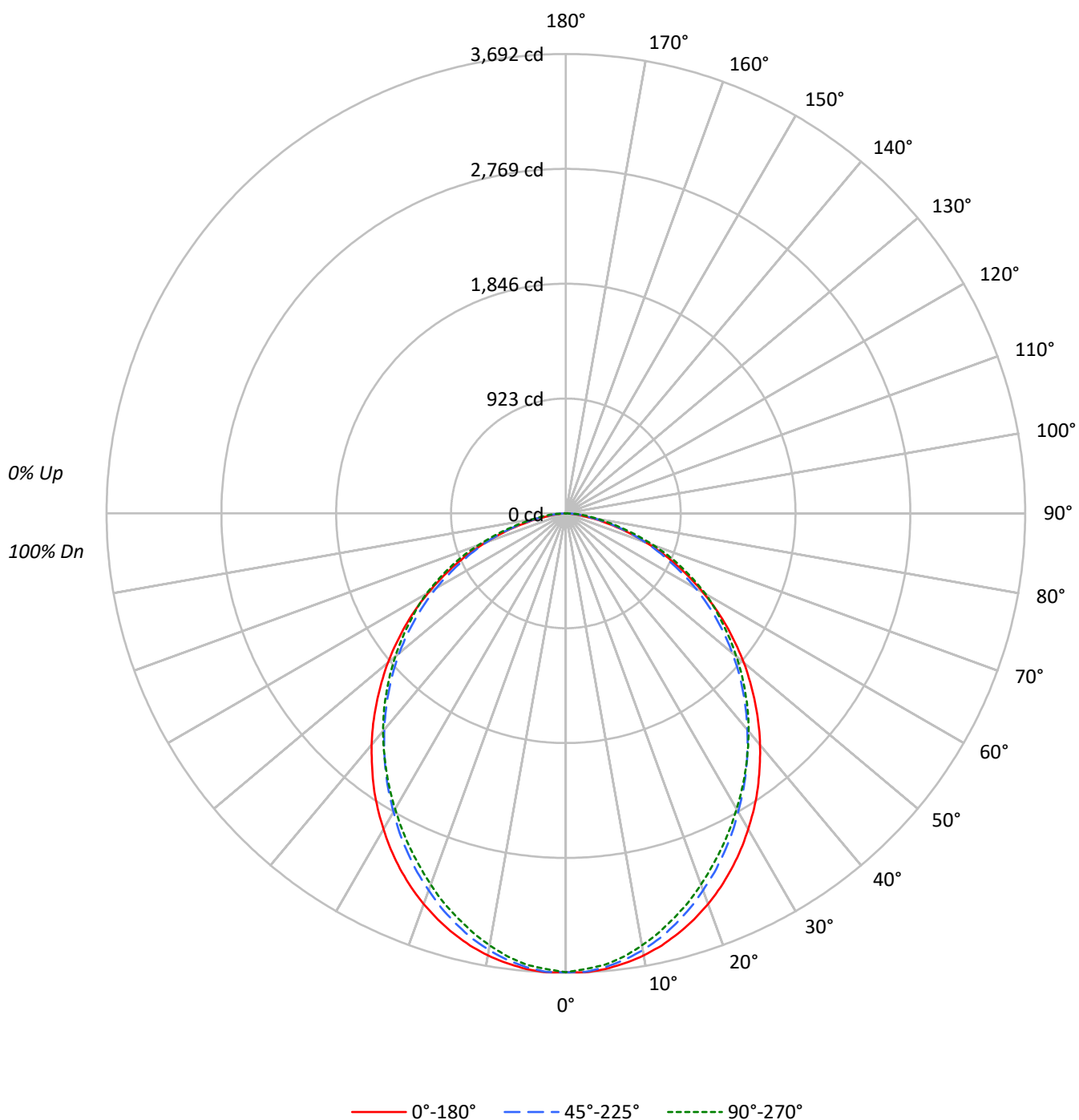
Lumens per Lamp: N/A
Luminaire Lumens: 8786.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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: P1499122

CATALOG NUMBER: MAE-G-4-120-1STD-HI-50-90-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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	4962	4962	4962
5°	4964	4944	4918
10°	4929	4870	4817
15°	4868	4756	4687
20°	4784	4617	4547
25°	4680	4468	4403
30°	4555	4304	4264
35°	4420	4148	4135
40°	4266	3987	4014
45°	4093	3827	3882
50°	3909	3658	3744
55°	3696	3463	3605
60°	3434	3239	3487
65°	3129	2957	3269
70°	2718	2674	2955
75°	2175	2306	2491
80°	1509	1822	2037
85°	846	1417	1870

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	3.9
10°-20°	962.9	11.0
20°-30°	1395.9	15.9
30°-40°	1603.3	18.2
40°-50°	1584.0	18.0
50°-60°	1354.5	15.4
60°-70°	958.5	10.9
70°-80°	474.2	5.4
80°-90°	106.6	1.2
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°	2704.8	30.8
0°-40°	4308.2	49.0
0°-60°	7246.7	82.5
0°-90°	8786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3688	3688	3688	3688	3688	
5°	3675	3672	3661	3632	3641	349
15°	3495	3473	3414	3362	3365	985
25°	3152	3101	3010	2961	2966	1451
35°	2691	2620	2526	2504	2517	1681
45°	2151	2084	2011	2023	2040	1659
55°	1575	1514	1476	1508	1537	1406
65°	983	934	929	997	1027	972
75°	418	397	444	476	479	451
85°	55	68	92	112	121	77
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1STD-HI-50-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3687.9	3687.9	3687.9	3687.9	3687.9
2.5°	3692.0	3695.3	3687.9	3659.2	3664.9
5°	3675.4	3672.5	3660.6	3632.5	3640.9
7.5°	3646.3	3640.8	3619.4	3585.6	3591.0
10°	3607.7	3596.7	3564.4	3521.9	3525.9
12.5°	3557.4	3542.3	3496.5	3447.5	3451.4
15°	3494.7	3473.1	3414.2	3361.5	3365.0
17.5°	3422.8	3397.4	3325.5	3268.1	3276.8
20°	3341.4	3307.4	3224.3	3168.8	3175.4
22.5°	3251.3	3209.0	3121.1	3066.5	3070.6
25°	3152.3	3101.1	3009.7	2960.8	2965.9
27.5°	3045.6	2989.1	2893.9	2848.2	2857.3
30°	2931.7	2870.5	2770.1	2734.6	2744.5
32.5°	2814.5	2749.1	2649.5	2622.1	2632.0
35°	2691.2	2620.1	2525.5	2504.4	2517.4
37.5°	2559.4	2490.5	2396.5	2390.0	2401.8
40°	2428.6	2357.3	2269.8	2270.3	2285.3
42.5°	2292.5	2223.2	2141.9	2147.9	2165.7
45°	2151.2	2084.0	2011.1	2023.3	2040.0
47.5°	2008.9	1942.8	1880.5	1896.8	1917.6
50°	1867.7	1803.6	1747.5	1770.1	1788.8
52.5°	1718.9	1658.0	1614.0	1638.7	1664.7
55°	1575.4	1513.7	1476.2	1508.2	1536.6
57.5°	1426.8	1374.5	1341.3	1382.3	1419.0
60°	1276.1	1224.9	1203.8	1259.7	1295.9
62.5°	1128.3	1078.4	1064.3	1133.4	1161.3
65°	982.8	934.0	928.9	996.9	1026.8
67.5°	837.9	793.7	805.2	873.2	894.0
70°	691.0	651.3	679.8	738.9	751.1
72.5°	552.5	519.5	561.6	606.1	611.1
75°	418.3	397.2	443.5	475.7	479.1
77.5°	299.7	288.7	333.2	357.5	361.8
80°	194.8	199.0	235.2	255.2	262.9
82.5°	113.8	124.5	153.3	180.5	188.5
85°	54.8	67.7	91.8	112.4	121.1
87.5°	18.9	27.4	38.5	42.8	41.6
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	16.38	17.96	16.75	18.28	18.59	16.42	18.00	16.78	18.31	18.63
	3H	17.84	19.26	18.22	19.59	19.95	18.10	19.53	18.48	19.85	20.21
	4H	18.27	19.61	18.67	19.96	20.34	18.64	19.98	19.04	20.33	20.70
	6H	18.50	19.74	18.91	20.10	20.49	18.97	20.21	19.38	20.58	20.97
	8H	18.53	19.71	18.96	20.10	20.50	19.08	20.26	19.50	20.65	21.05
	12H	18.54	19.67	18.97	20.05	20.48	19.15	20.28	19.58	20.66	21.09
4H	2H	16.88	18.22	17.28	18.57	18.95	16.91	18.25	17.31	18.60	18.98
	3H	18.53	19.65	18.94	20.04	20.44	18.80	19.92	19.21	20.32	20.72
	4H	19.05	20.05	19.48	20.47	20.91	19.46	20.46	19.89	20.88	21.32
	6H	19.36	20.23	19.81	20.67	21.13	19.90	20.78	20.36	21.22	21.68
	8H	19.41	20.23	19.88	20.68	21.14	20.05	20.86	20.51	21.31	21.77
	12H	19.44	20.17	19.92	20.65	21.12	20.16	20.89	20.64	21.37	21.84
8H	4H	19.28	20.10	19.74	20.54	21.01	19.65	20.47	20.11	20.91	21.38
	6H	19.66	20.33	20.15	20.82	21.30	20.18	20.86	20.68	21.35	21.82
	8H	19.75	20.35	20.26	20.86	21.35	20.38	20.99	20.89	21.50	21.98
	12H	19.80	20.34	20.31	20.83	21.39	20.56	21.10	21.07	21.59	22.15
12H	4H	19.29	20.03	19.78	20.50	20.97	19.65	20.38	20.13	20.86	21.33
	6H	19.68	20.29	20.19	20.80	21.29	20.19	20.80	20.70	21.31	21.79
	8H	19.82	20.35	20.32	20.84	21.41	20.44	20.97	20.95	21.46	22.03