

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: P1498642

Luminaire Tested: MAE-G-2-120-3HI-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498642
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-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

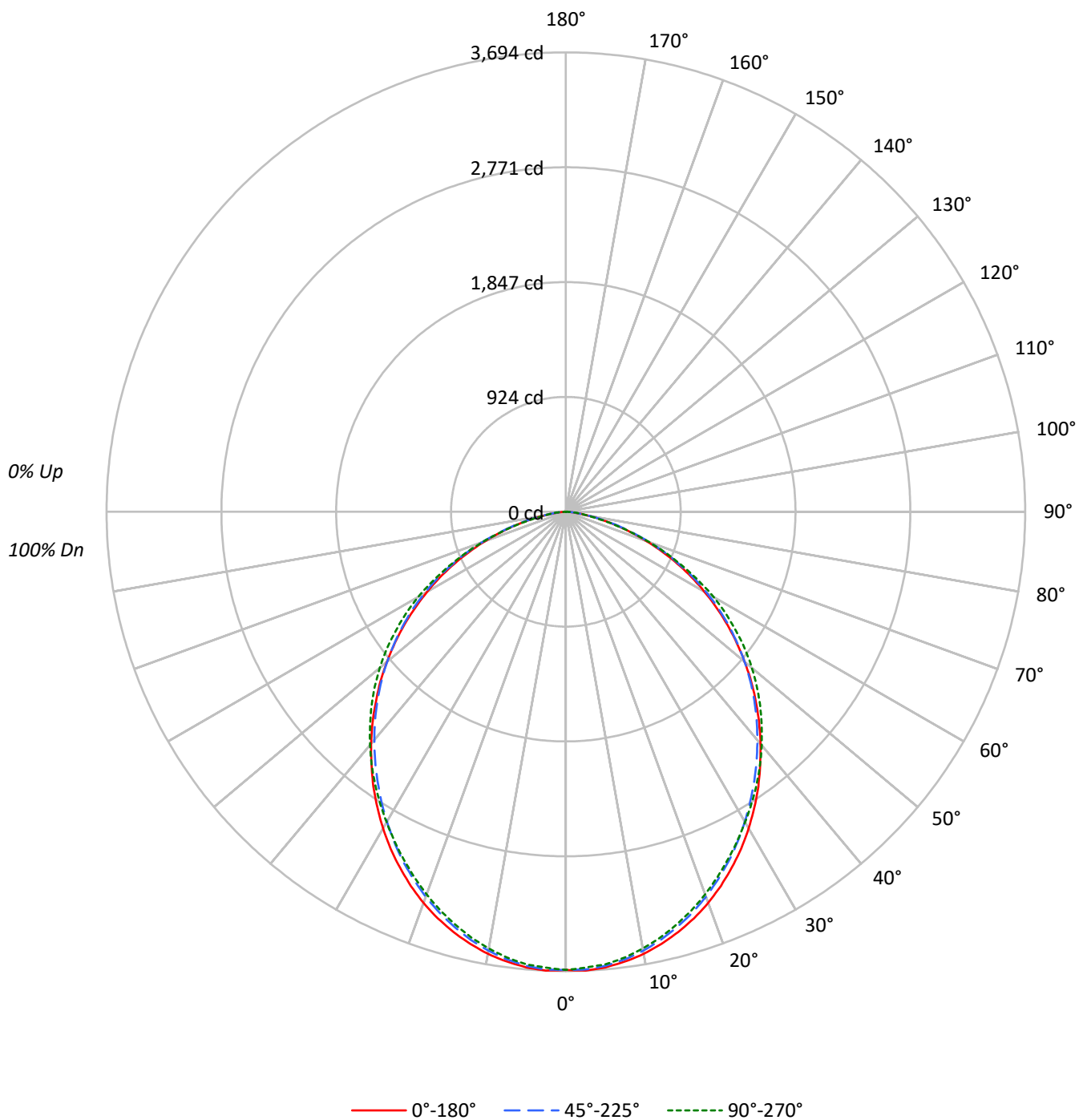
Lumens per Lamp: N/A
Luminaire Lumens: 9055.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110.3
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

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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	81	98	91	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	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	40	35	60	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	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9914	9914	9914
5°	9932	9900	9866
10°	9863	9795	9744
15°	9744	9632	9575
20°	9585	9434	9377
25°	9376	9203	9160
30°	9136	8941	8958
35°	8864	8676	8787
40°	8557	8417	8607
45°	8223	8152	8408
50°	7858	7854	8175
55°	7447	7510	7838
60°	6937	7070	7393
65°	6303	6477	6625
70°	5430	5635	5607
75°	4317	4489	4220
80°	2909	2968	2785
85°	1497	1877	2300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8408 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	3.8
10°-20°	974.2	10.8
20°-30°	1429.8	15.8
30°-40°	1663.8	18.4
40°-50°	1666.6	18.4
50°-60°	1439.7	15.9
60°-70°	1002.6	11.1
70°-80°	452.2	5.0
80°-90°	79.3	0.9
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°	2750.8	30.4
0°-40°	4414.6	48.8
0°-60°	7520.9	83.1
0°-90°	9055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3684	3684	3684	3684	3684	
5°	3677	3662	3665	3647	3652	349
15°	3498	3475	3458	3432	3437	986
25°	3158	3128	3099	3074	3085	1454
35°	2698	2662	2641	2650	2675	1686
45°	2161	2134	2142	2182	2209	1667
55°	1587	1568	1601	1652	1671	1417
65°	990	985	1017	1036	1040	978
75°	415	418	432	417	406	446
85°	48	52	61	70	74	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3684.3	3684.3	3684.3	3684.3	3684.3
2.5°	3693.5	3678.6	3684.3	3670.7	3668.4
5°	3676.9	3661.5	3665.0	3647.4	3652.4
7.5°	3648.4	3631.9	3630.8	3611.5	3616.1
10°	3609.7	3590.1	3584.7	3562.6	3566.0
12.5°	3558.3	3537.8	3527.0	3501.6	3507.3
15°	3497.7	3475.0	3457.5	3432.1	3437.1
17.5°	3427.6	3402.4	3381.1	3351.7	3360.2
20°	3347.1	3319.8	3294.4	3263.3	3274.3
22.5°	3256.9	3228.0	3199.1	3170.9	3181.8
25°	3157.7	3128.2	3099.4	3073.5	3084.9
27.5°	3053.2	3020.4	2991.2	2971.9	2984.6
30°	2940.2	2906.1	2877.6	2864.7	2883.0
32.5°	2820.8	2787.0	2761.2	2759.2	2780.4
35°	2698.3	2662.5	2640.9	2650.1	2674.8
37.5°	2566.5	2536.0	2519.9	2540.3	2565.3
40°	2435.8	2404.0	2396.0	2423.7	2450.2
42.5°	2300.7	2272.2	2270.5	2306.8	2331.4
45°	2160.7	2134.2	2142.2	2182.4	2209.4
47.5°	2023.2	1996.1	2011.5	2055.9	2084.9
50°	1877.1	1854.6	1876.1	1926.2	1952.7
52.5°	1731.8	1710.2	1739.3	1792.2	1817.9
55°	1587.3	1567.6	1600.7	1652.1	1670.7
57.5°	1437.7	1425.6	1460.2	1505.5	1525.0
60°	1288.9	1278.2	1313.6	1356.0	1373.6
62.5°	1139.9	1132.8	1166.8	1201.5	1207.8
65°	989.9	985.0	1017.2	1036.5	1040.5
67.5°	838.2	837.8	867.6	878.3	878.2
70°	690.2	688.2	716.2	719.9	712.6
72.5°	546.5	548.9	567.8	564.8	552.6
75°	415.2	417.8	431.8	417.3	405.9
77.5°	293.2	295.6	302.8	286.6	279.7
80°	187.7	193.4	191.5	184.4	179.7
82.5°	105.0	111.2	109.3	118.4	122.3
85°	48.5	52.4	60.8	70.5	74.5
87.5°	16.5	19.9	25.0	26.7	25.0
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	18.90	20.49	19.27	20.80	21.11	19.29	20.87	19.65	21.19	21.50
	3H	20.35	21.78	20.73	22.10	22.46	20.71	22.13	21.08	22.46	22.82
	4H	20.77	22.11	21.17	22.46	22.83	21.08	22.42	21.48	22.77	23.14
	6H	20.97	22.21	21.38	22.57	22.96	21.24	22.48	21.65	22.84	23.23
	8H	21.00	22.18	21.42	22.56	22.96	21.27	22.45	21.69	22.84	23.24
	12H	20.99	22.12	21.42	22.50	22.93	21.28	22.41	21.71	22.79	23.22
4H	2H	19.49	20.82	19.89	21.17	21.55	19.80	21.14	20.20	21.48	21.86
	3H	21.11	22.22	21.52	22.62	23.02	21.40	22.51	21.81	22.91	23.31
	4H	21.61	22.61	22.05	23.03	23.47	21.86	22.86	22.29	23.28	23.71
	6H	21.89	22.76	22.35	23.20	23.66	22.09	22.96	22.55	23.40	23.86
	8H	21.93	22.74	22.39	23.19	23.65	22.14	22.95	22.60	23.39	23.86
	12H	21.94	22.67	22.42	23.14	23.61	22.17	22.90	22.65	23.37	23.84
8H	4H	21.80	22.61	22.26	23.05	23.52	22.02	22.84	22.49	23.28	23.75
	6H	22.13	22.80	22.62	23.29	23.76	22.30	22.97	22.80	23.46	23.94
	8H	22.19	22.79	22.70	23.30	23.79	22.37	22.97	22.89	23.48	23.97
	12H	22.22	22.75	22.73	23.24	23.81	22.44	22.97	22.95	23.46	24.02
12H	4H	21.79	22.52	22.28	23.00	23.47	22.02	22.75	22.50	23.22	23.69
	6H	22.12	22.72	22.63	23.23	23.72	22.29	22.90	22.81	23.40	23.89
	8H	22.22	22.75	22.73	23.24	23.80	22.40	22.93	22.91	23.42	23.99