

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: P1499566

Luminaire Tested: MAE-G-4-120-3LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499566
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-4-120-3LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

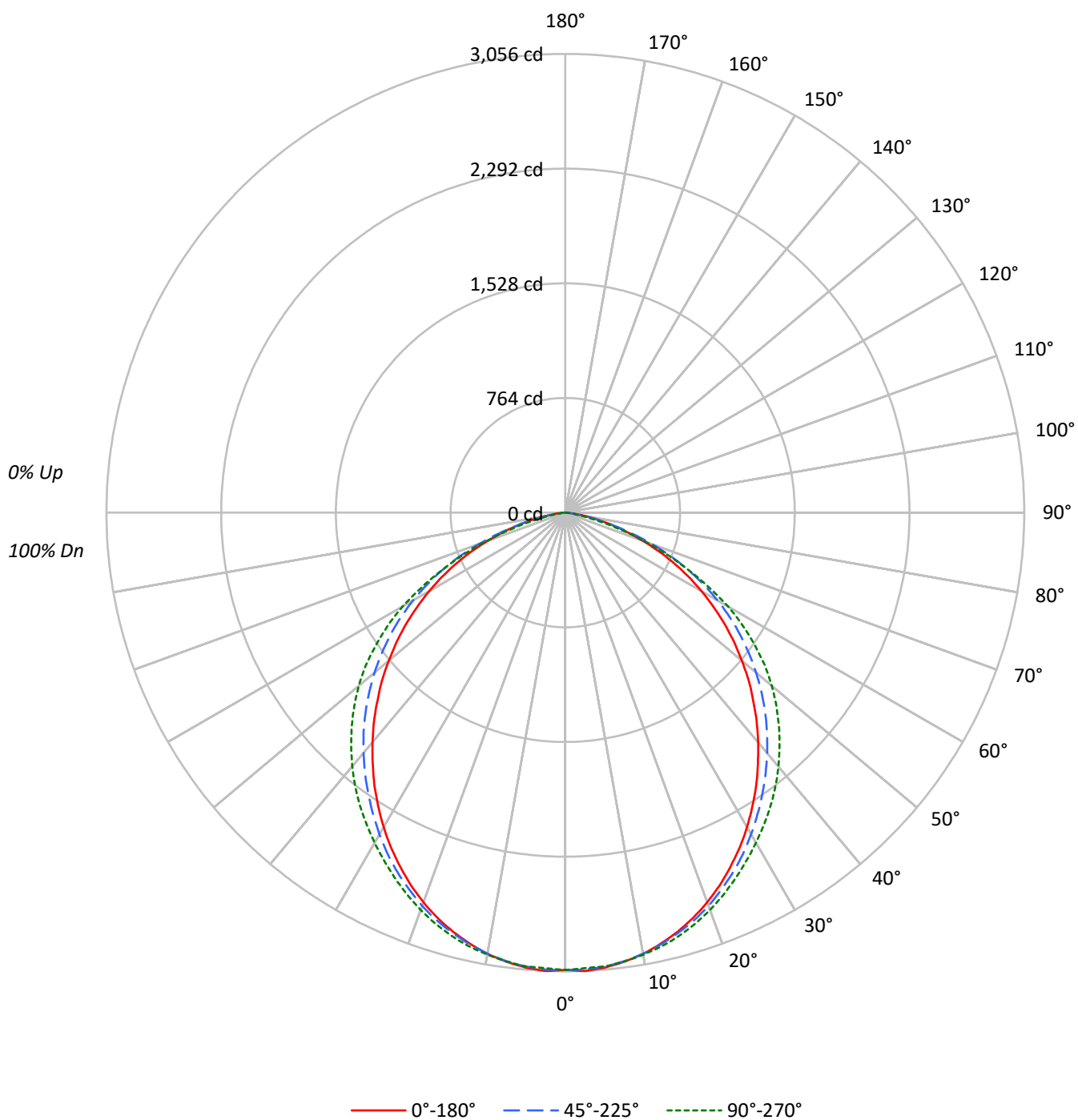
Lumens per Lamp: N/A
Luminaire Lumens: 7722.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4099	4099	4099
5°	4108	4100	4098
10°	4078	4076	4086
15°	4026	4039	4068
20°	3956	3992	4034
25°	3864	3926	3988
30°	3759	3845	3945
35°	3641	3757	3915
40°	3509	3672	3876
45°	3366	3582	3827
50°	3210	3471	3759
55°	3037	3336	3614
60°	2819	3152	3372
65°	2545	2875	2889
70°	2173	2414	2245
75°	1706	1761	1381
80°	1113	906	535
85°	534	358	284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	3.7
10°-20°	817.0	10.6
20°-30°	1215.2	15.7
30°-40°	1432.0	18.5
40°-50°	1451.8	18.8
50°-60°	1265.1	16.4
60°-70°	865.2	11.2
70°-80°	347.6	4.5
80°-90°	40.3	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°	2320.0	30.0
0°-40°	3752.0	48.6
0°-60°	6468.9	83.8
0°-90°	7722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3042	3023	3035	3032	3034	289
15°	2890	2878	2899	2911	2921	814
25°	2603	2604	2644	2664	2686	1198
35°	2217	2227	2287	2344	2384	1385
45°	1769	1793	1882	1967	2011	1365
55°	1295	1322	1422	1512	1541	1156
65°	800	836	903	910	907	791
75°	328	350	339	291	266	353
85°	35	31	23	20	18	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3056.5	3036.2	3046.7	3044.6	3036.8
5°	3041.8	3023.4	3035.4	3031.9	3034.0
7.5°	3017.8	3001.0	3013.6	3013.0	3016.4
10°	2984.8	2967.8	2983.4	2986.2	2990.4
12.5°	2941.0	2927.0	2946.0	2951.6	2960.0
15°	2890.3	2877.6	2899.4	2911.4	2920.6
17.5°	2831.1	2820.5	2848.7	2860.1	2872.7
20°	2762.7	2755.1	2788.1	2798.7	2817.1
22.5°	2686.8	2682.6	2717.0	2733.2	2754.3
25°	2602.8	2603.6	2644.4	2663.6	2686.0
27.5°	2514.9	2516.3	2562.8	2589.4	2613.4
30°	2419.7	2423.9	2474.7	2507.9	2539.5
32.5°	2319.0	2327.4	2382.4	2427.5	2462.7
35°	2216.9	2226.7	2287.4	2343.6	2383.8
37.5°	2106.3	2122.5	2190.9	2257.8	2299.2
40°	1997.8	2014.0	2090.7	2164.7	2207.0
42.5°	1885.8	1906.2	1988.0	2070.3	2111.1
45°	1768.9	1792.7	1882.3	1966.8	2011.2
47.5°	1656.8	1678.0	1772.3	1860.5	1906.2
50°	1533.5	1560.3	1658.2	1750.5	1795.7
52.5°	1415.9	1440.5	1541.3	1635.8	1676.6
55°	1294.8	1322.2	1422.3	1511.7	1540.7
57.5°	1170.7	1203.9	1300.4	1375.1	1402.5
60°	1047.6	1080.6	1171.5	1232.8	1253.2
62.5°	924.9	960.2	1039.8	1080.6	1080.6
65°	799.5	835.5	903.1	910.1	907.3
67.5°	674.2	710.1	761.5	748.8	740.4
70°	552.3	583.3	613.6	590.3	570.6
72.5°	433.9	463.5	468.5	434.7	410.0
75°	328.2	350.2	338.8	291.0	265.6
77.5°	228.9	241.6	217.7	169.1	148.7
80°	143.7	149.3	116.9	82.4	69.0
82.5°	77.5	78.2	50.8	41.6	38.8
85°	34.6	31.0	23.2	20.4	18.4
87.5°	12.0	10.6	8.4	7.8	6.4
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	15.83	17.41	16.19	17.73	18.04	16.81	18.39	17.18	18.71	19.02
	3H	17.24	18.66	17.62	18.99	19.35	18.02	19.44	18.39	19.76	20.13
	4H	17.63	18.97	18.03	19.31	19.69	18.23	19.57	18.63	19.91	20.29
	6H	17.81	19.04	18.22	19.40	19.80	18.25	19.48	18.66	19.85	20.24
	8H	17.82	18.99	18.25	19.38	19.78	18.23	19.40	18.65	19.79	20.19
	12H	17.81	18.94	18.24	19.32	19.75	18.20	19.32	18.63	19.71	20.14
4H	2H	16.50	17.83	16.90	18.18	18.56	17.29	18.62	17.69	18.97	19.35
	3H	18.07	19.17	18.48	19.57	19.97	18.66	19.76	19.07	20.16	20.56
	4H	18.54	19.54	18.98	19.95	20.39	18.93	19.92	19.36	20.34	20.78
	6H	18.78	19.65	19.24	20.09	20.55	18.98	19.84	19.44	20.29	20.74
	8H	18.81	19.61	19.27	20.05	20.52	18.96	19.76	19.42	20.21	20.67
	12H	18.81	19.53	19.29	20.00	20.47	18.94	19.66	19.42	20.13	20.60
8H	4H	18.69	19.49	19.15	19.94	20.40	19.05	19.85	19.51	20.30	20.76
	6H	18.96	19.63	19.46	20.12	20.59	19.11	19.77	19.61	20.26	20.74
	8H	19.00	19.60	19.52	20.11	20.59	19.09	19.68	19.60	20.19	20.68
	12H	19.02	19.54	19.53	20.03	20.60	19.07	19.59	19.58	20.09	20.65
12H	4H	18.67	19.39	19.15	19.87	20.34	19.04	19.76	19.52	20.23	20.70
	6H	18.93	19.53	19.45	20.04	20.52	19.09	19.68	19.60	20.19	20.68
	8H	19.00	19.52	19.51	20.01	20.58	19.09	19.61	19.60	20.10	20.66