

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: P1499560

Luminaire Tested: MAE-G-4-120-3LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499560
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

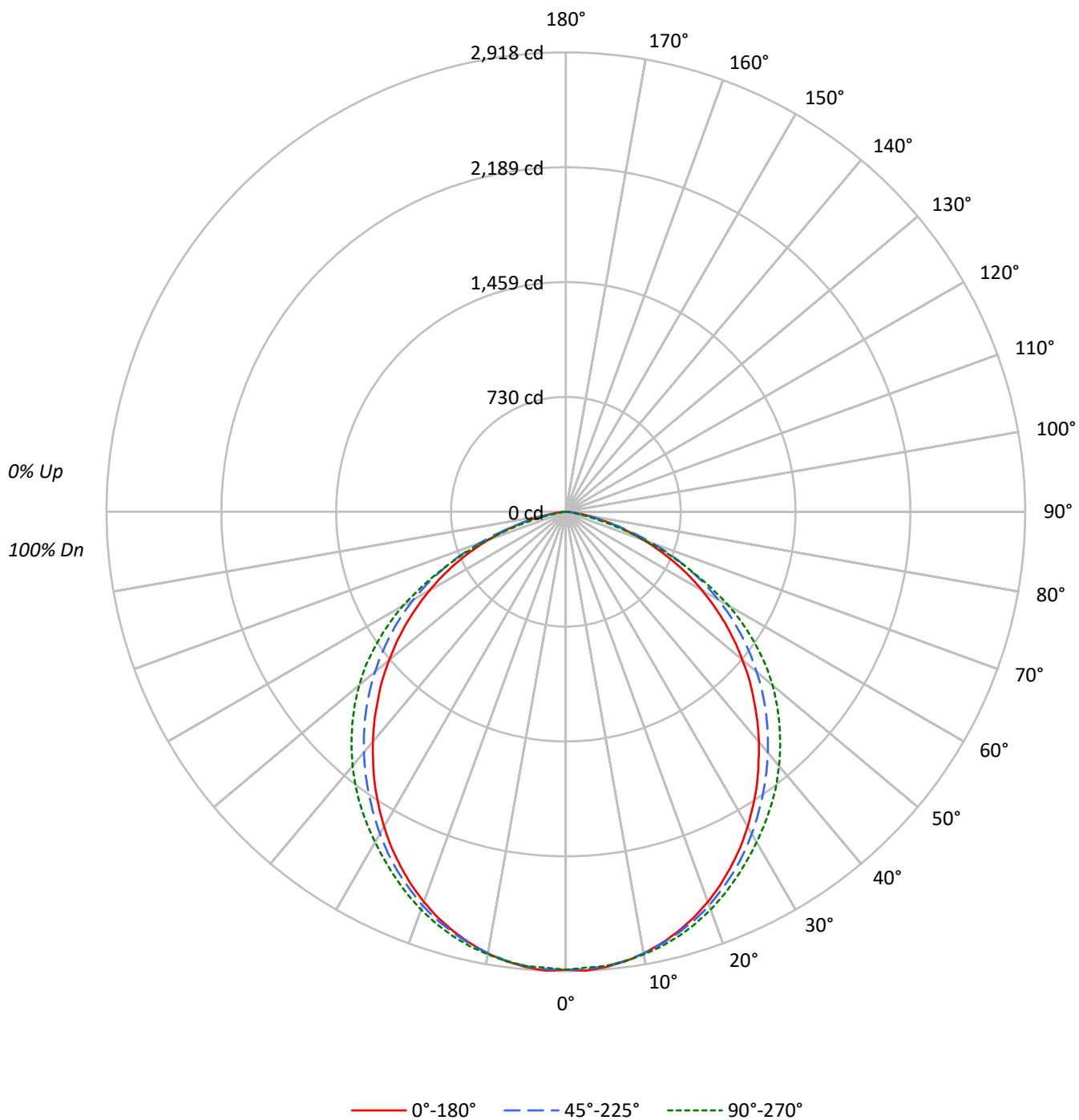
Lumens per Lamp: N/A
Luminaire Lumens: 7371.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	3913	3913	3913
5°	3922	3913	3912
10°	3893	3891	3900
15°	3843	3855	3883
20°	3776	3811	3850
25°	3688	3747	3806
30°	3588	3670	3766
35°	3476	3586	3737
40°	3349	3505	3700
45°	3213	3419	3653
50°	3064	3313	3588
55°	2899	3185	3450
60°	2691	3009	3219
65°	2430	2744	2757
70°	2074	2304	2143
75°	1629	1681	1318
80°	1063	865	510
85°	509	341	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	3.7
10°-20°	779.9	10.6
20°-30°	1159.9	15.7
30°-40°	1366.9	18.5
40°-50°	1385.8	18.8
50°-60°	1207.6	16.4
60°-70°	825.9	11.2
70°-80°	331.8	4.5
80°-90°	38.5	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°	2214.6	30.0
0°-40°	3581.4	48.6
0°-60°	6174.9	83.8
0°-90°	7371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2904	2886	2897	2894	2896	275
15°	2759	2747	2768	2779	2788	777
25°	2484	2485	2524	2542	2564	1144
35°	2116	2126	2183	2237	2275	1322
45°	1688	1711	1797	1877	1920	1303
55°	1236	1262	1358	1443	1471	1103
65°	763	798	862	869	866	755
75°	313	334	323	278	254	337
85°	33	30	22	20	18	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2908.3	2908.3	2908.3	2908.3	2908.3
2.5°	2917.6	2898.1	2908.3	2906.2	2898.7
5°	2903.5	2886.0	2897.4	2894.1	2896.1
7.5°	2880.6	2864.6	2876.6	2876.0	2879.3
10°	2849.1	2832.9	2847.8	2850.4	2854.5
12.5°	2807.3	2794.0	2812.1	2817.4	2825.5
15°	2758.9	2746.8	2767.7	2779.1	2787.9
17.5°	2702.4	2692.3	2719.2	2730.1	2742.1
20°	2637.2	2629.9	2661.4	2671.5	2689.0
22.5°	2564.6	2560.6	2593.5	2608.9	2629.1
25°	2484.5	2485.3	2524.2	2542.5	2563.9
27.5°	2400.6	2401.9	2446.3	2471.7	2494.6
30°	2309.7	2313.8	2362.2	2393.9	2424.0
32.5°	2213.6	2221.6	2274.1	2317.2	2350.8
35°	2116.1	2125.5	2183.4	2237.1	2275.4
37.5°	2010.6	2026.0	2091.3	2155.2	2194.7
40°	1907.0	1922.4	1995.7	2066.3	2106.7
42.5°	1800.1	1819.6	1897.6	1976.2	2015.2
45°	1688.5	1711.2	1796.7	1877.4	1919.8
47.5°	1581.5	1601.7	1691.8	1775.9	1819.6
50°	1463.8	1489.3	1582.8	1671.0	1714.1
52.5°	1351.6	1375.1	1471.2	1561.4	1600.4
55°	1235.9	1262.1	1357.7	1443.0	1470.6
57.5°	1117.5	1149.2	1241.3	1312.6	1338.8
60°	999.9	1031.4	1118.2	1176.8	1196.3
62.5°	882.8	916.6	992.5	1031.4	1031.4
65°	763.2	797.5	862.0	868.7	866.0
67.5°	643.5	677.9	726.9	714.7	706.7
70°	527.2	556.7	585.7	563.4	544.7
72.5°	414.2	442.5	447.2	415.0	391.3
75°	313.3	334.3	323.4	277.8	253.6
77.5°	218.5	230.7	207.8	161.4	141.9
80°	137.2	142.5	111.6	78.6	65.8
82.5°	74.0	74.6	48.5	39.7	37.0
85°	33.0	29.6	22.1	19.5	17.5
87.5°	11.4	10.1	8.0	7.4	6.1
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	15.67	17.25	16.03	17.56	17.88	16.65	18.23	17.01	18.55	18.86
	3H	17.08	18.50	17.45	18.83	19.19	17.85	19.28	18.23	19.60	19.96
	4H	17.47	18.80	17.87	19.15	19.53	18.07	19.40	18.47	19.75	20.13
	6H	17.65	18.88	18.06	19.24	19.63	18.09	19.32	18.50	19.69	20.08
	8H	17.66	18.83	18.09	19.22	19.62	18.06	19.24	18.49	19.63	20.03
	12H	17.65	18.77	18.08	19.16	19.58	18.04	19.16	18.47	19.55	19.97
4H	2H	16.34	17.67	16.74	18.02	18.40	17.13	18.46	17.53	18.81	19.19
	3H	17.91	19.01	18.32	19.41	19.81	18.50	19.60	18.91	20.00	20.40
	4H	18.38	19.38	18.81	19.79	20.23	18.77	19.76	19.20	20.18	20.62
	6H	18.62	19.48	19.08	19.93	20.38	18.82	19.68	19.28	20.12	20.58
	8H	18.65	19.45	19.11	19.89	20.36	18.80	19.60	19.26	20.04	20.51
	12H	18.65	19.36	19.13	19.84	20.31	18.78	19.49	19.26	19.97	20.44
8H	4H	18.53	19.33	18.99	19.78	20.24	18.89	19.69	19.35	20.14	20.60
	6H	18.80	19.46	19.30	19.95	20.43	18.95	19.61	19.44	20.10	20.58
	8H	18.84	19.43	19.36	19.94	20.43	18.93	19.52	19.44	20.03	20.51
	12H	18.86	19.38	19.37	19.87	20.43	18.91	19.43	19.42	19.92	20.49
12H	4H	18.51	19.23	18.99	19.71	20.18	18.88	19.60	19.36	20.07	20.54
	6H	18.77	19.37	19.29	19.87	20.36	18.92	19.52	19.44	20.03	20.51
	8H	18.84	19.36	19.35	19.85	20.42	18.93	19.45	19.43	19.94	20.50