

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: P1499029

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499029
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-4-120-1LO-HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

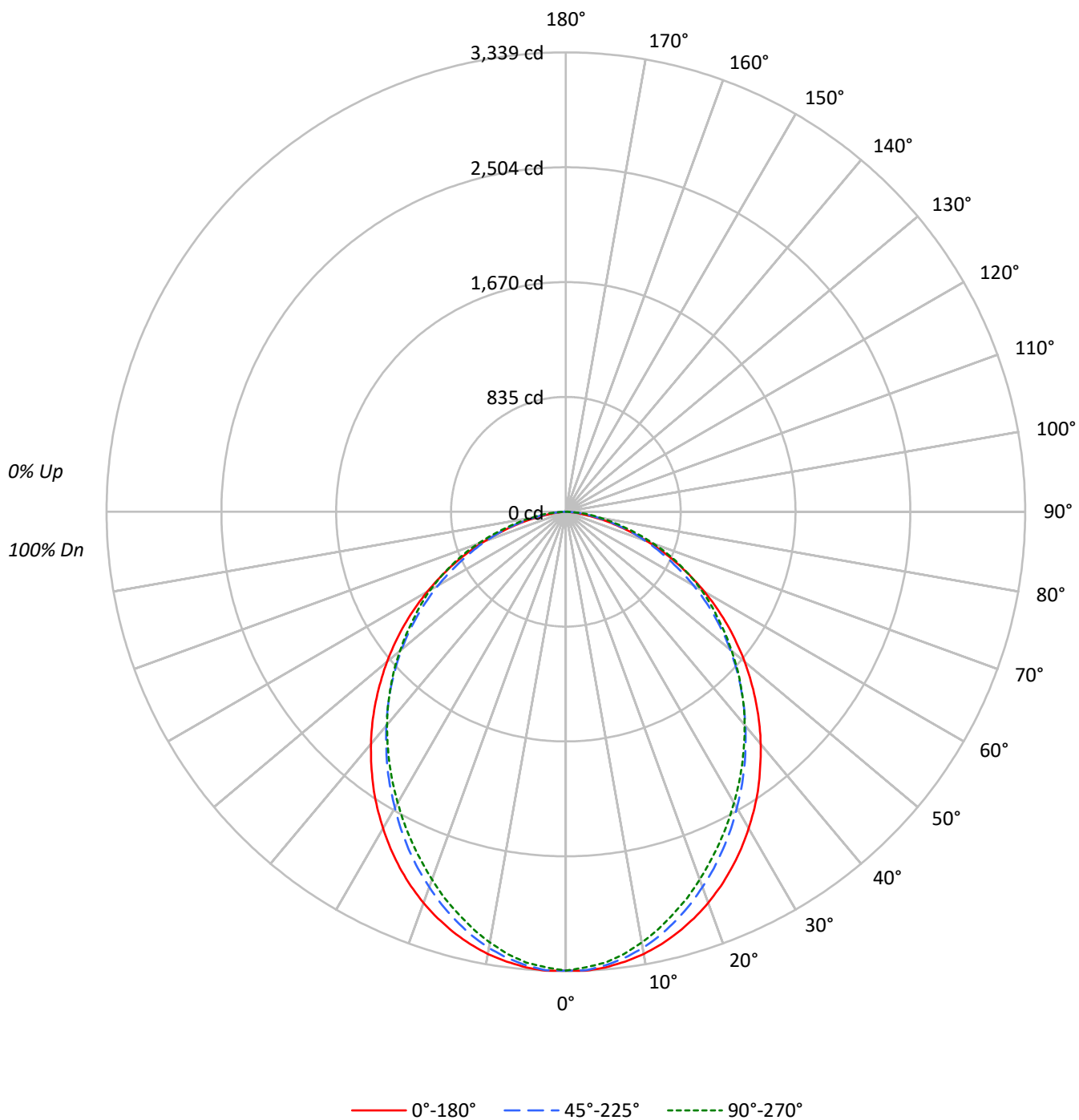
Lumens per Lamp: N/A
Luminaire Lumens: 7898.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4487	4487	4487
5°	4490	4470	4443
10°	4459	4399	4344
15°	4405	4289	4213
20°	4332	4156	4074
25°	4239	4015	3932
30°	4129	3861	3796
35°	4009	3716	3671
40°	3872	3566	3552
45°	3719	3418	3425
50°	3555	3264	3293
55°	3363	3088	3164
60°	3131	2887	3064
65°	2857	2642	2905
70°	2487	2409	2677
75°	1995	2113	2335
80°	1392	1720	1982
85°	783	1371	1839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.7	4.0
10°-20°	868.3	11.0
20°-30°	1255.1	15.9
30°-40°	1437.8	18.2
40°-50°	1417.0	17.9
50°-60°	1209.5	15.3
60°-70°	859.8	10.9
70°-80°	435.7	5.5
80°-90°	102.0	1.3
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°	2436.1	30.8
0°-40°	3873.9	49.0
0°-60°	6500.5	82.3
0°-90°	7898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3335	3335	3335	3335	3335	
5°	3324	3322	3310	3282	3290	315
15°	3162	3140	3079	3023	3024	891
25°	2855	2803	2705	2648	2649	1314
35°	2441	2367	2262	2229	2235	1525
45°	1954	1882	1796	1792	1800	1507
55°	1434	1368	1316	1330	1349	1280
65°	898	845	830	887	913	888
75°	384	361	406	442	449	414
85°	51	64	89	110	119	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3338.8	3342.1	3335.2	3308.0	3314.2
5°	3324.2	3321.8	3309.9	3281.8	3289.7
7.5°	3298.2	3292.7	3271.3	3237.0	3241.9
10°	3263.6	3252.6	3219.8	3176.3	3179.3
12.5°	3218.4	3202.8	3156.0	3104.9	3107.3
15°	3162.3	3140.2	3079.3	3023.0	3024.5
17.5°	3098.0	3071.1	2996.1	2934.7	2940.3
20°	3025.2	2989.7	2902.5	2842.0	2845.0
22.5°	2944.3	2900.4	2807.5	2746.8	2746.8
25°	2855.4	2802.7	2704.7	2648.2	2648.7
27.5°	2759.9	2701.3	2598.0	2544.2	2547.7
30°	2657.6	2593.9	2485.4	2439.7	2443.5
32.5°	2552.1	2483.6	2375.4	2336.4	2340.2
35°	2441.0	2366.8	2262.1	2228.8	2234.7
37.5°	2322.3	2249.9	2145.2	2124.0	2128.7
40°	2204.3	2129.5	2030.2	2015.0	2022.4
42.5°	2081.4	2008.1	1914.6	1904.3	1913.4
45°	1954.3	1882.0	1796.5	1791.9	1799.9
47.5°	1825.7	1755.0	1679.0	1678.1	1689.8
50°	1698.2	1629.0	1559.2	1564.1	1573.1
52.5°	1563.1	1497.6	1439.4	1446.4	1462.2
55°	1433.8	1367.5	1316.3	1330.1	1348.8
57.5°	1299.4	1241.5	1195.6	1218.9	1244.9
60°	1163.4	1107.1	1072.8	1111.0	1138.6
62.5°	1029.3	974.8	949.6	1001.9	1025.8
65°	897.5	844.6	829.9	887.2	912.6
67.5°	765.4	718.1	720.9	781.8	800.6
70°	632.2	589.4	612.3	667.4	680.6
72.5°	505.8	470.8	509.4	554.4	561.9
75°	383.8	360.7	406.5	442.2	449.2
77.5°	275.4	263.3	309.4	338.7	346.6
80°	179.6	183.3	222.0	247.1	255.8
82.5°	105.2	115.9	147.2	175.4	184.4
85°	50.7	63.6	88.8	109.9	119.1
87.5°	17.4	25.9	37.5	41.8	40.6
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	16.05	17.64	16.42	17.95	18.27	15.91	17.49	16.27	17.80	18.12
	3H	17.53	18.95	17.90	19.28	19.64	17.65	19.07	18.02	19.40	19.76
	4H	17.97	19.31	18.36	19.65	20.03	18.24	19.58	18.63	19.92	20.30
	6H	18.20	19.44	18.61	19.80	20.19	18.63	19.87	19.04	20.23	20.62
	8H	18.24	19.42	18.66	19.81	20.21	18.75	19.94	19.18	20.32	20.72
	12H	18.24	19.38	18.67	19.76	20.19	18.84	19.98	19.27	20.36	20.79
4H	2H	16.54	17.88	16.94	18.23	18.60	16.42	17.76	16.82	18.11	18.48
	3H	18.20	19.32	18.61	19.72	20.12	18.37	19.49	18.78	19.89	20.29
	4H	18.73	19.74	19.16	20.15	20.59	19.08	20.09	19.51	20.50	20.94
	6H	19.05	19.92	19.50	20.37	20.82	19.59	20.47	20.05	20.91	21.37
	8H	19.11	19.93	19.57	20.37	20.84	19.76	20.58	20.22	21.02	21.49
	12H	19.14	19.87	19.62	20.35	20.82	19.90	20.63	20.38	21.11	21.58
8H	4H	18.97	19.79	19.43	20.23	20.70	19.29	20.11	19.75	20.55	21.02
	6H	19.36	20.04	19.85	20.53	21.00	19.89	20.57	20.39	21.06	21.54
	8H	19.46	20.07	19.97	20.57	21.06	20.13	20.74	20.64	21.25	21.73
	12H	19.52	20.05	20.02	20.55	21.11	20.34	20.87	20.84	21.36	21.93
12H	4H	18.99	19.72	19.47	20.20	20.67	19.29	20.02	19.77	20.50	20.97
	6H	19.39	20.00	19.90	20.51	21.00	19.91	20.52	20.42	21.02	21.51
	8H	19.53	20.07	20.04	20.56	21.13	20.19	20.73	20.70	21.22	21.78