

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: P1498936

Luminaire Tested: MAE-G-4-120-1HI-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498936
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-4-120-1HI-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

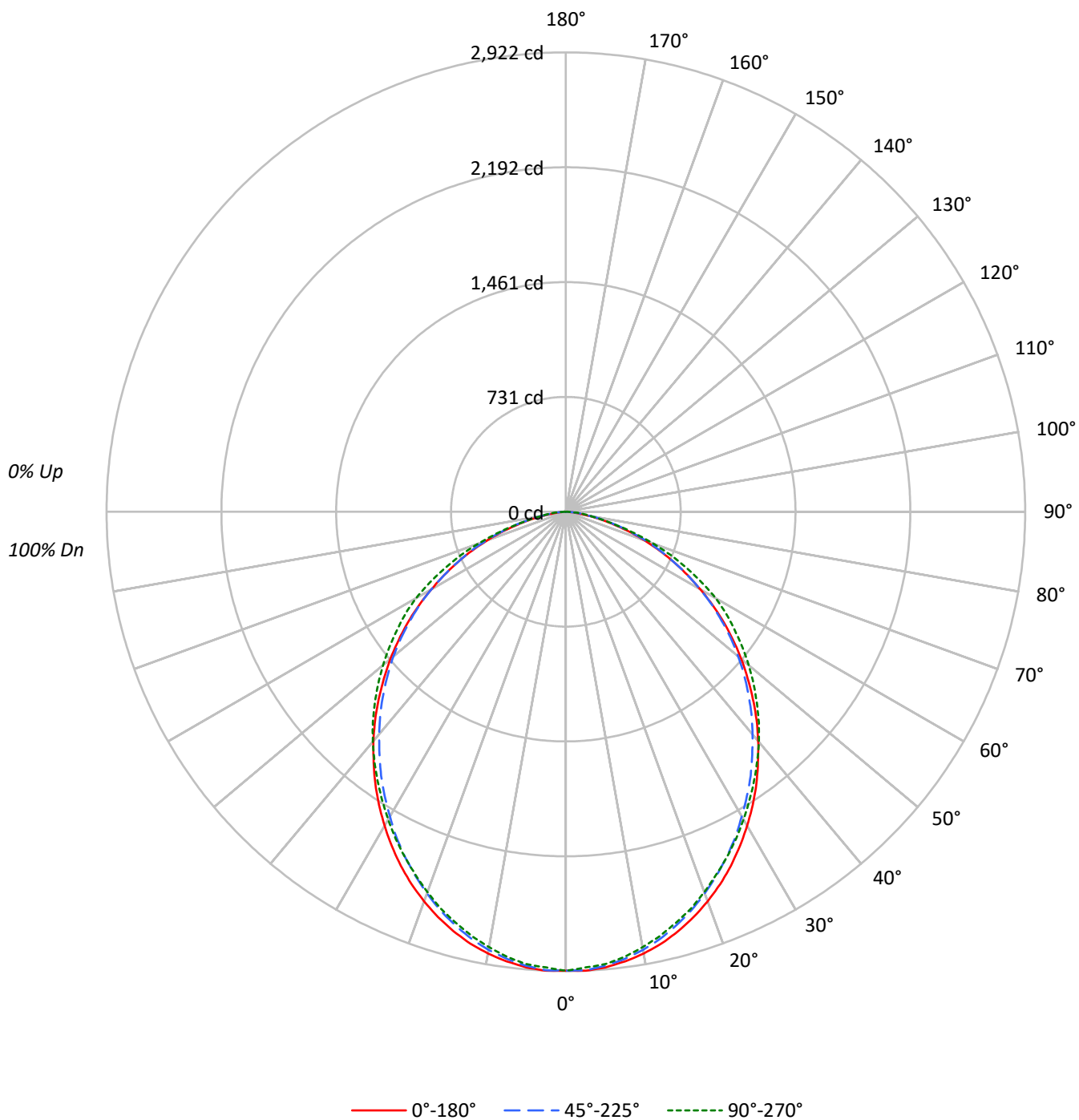
Lumens per Lamp: N/A
Luminaire Lumens: 7063.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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: P1498936

CATALOG NUMBER: MAE-G-4-120-1HI-LO-30-90-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	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	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3927	3927	3927
5°	3928	3915	3901
10°	3898	3866	3842
15°	3847	3791	3769
20°	3775	3698	3686
25°	3688	3595	3599
30°	3583	3476	3512
35°	3472	3365	3430
40°	3344	3245	3355
45°	3201	3126	3268
50°	3050	2997	3177
55°	2876	2841	3072
60°	2660	2661	2966
65°	2413	2414	2704
70°	2087	2139	2327
75°	1656	1761	1783
80°	1134	1278	1292
85°	628	919	1142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3268 cd/sqm

TEST NUMBER: P1498936

CATALOG NUMBER: MAE-G-4-120-1HI-LO-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	3.9
10°-20°	768.0	10.9
20°-30°	1121.4	15.9
30°-40°	1296.8	18.4
40°-50°	1289.2	18.3
50°-60°	1107.5	15.7
60°-70°	774.7	11.0
70°-80°	359.5	5.1
80°-90°	71.6	1.0
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°	2163.7	30.6
0°-40°	3460.5	49.0
0°-60°	5857.2	82.9
0°-90°	7063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2908	2905	2899	2882	2888	276
15°	2762	2751	2722	2699	2706	778
25°	2484	2459	2421	2411	2424	1143
35°	2114	2080	2049	2065	2088	1320
45°	1682	1656	1643	1688	1718	1298
55°	1226	1201	1211	1271	1310	1095
65°	758	739	758	822	849	750
75°	318	311	339	349	343	344
85°	41	48	60	70	74	58
90°	0	0	0	0	0	

TEST NUMBER: P1498936

CATALOG NUMBER: MAE-G-4-120-1HI-LO-30-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.8	2918.8	2918.8	2918.8	2918.8
2.5°	2922.4	2924.3	2918.8	2899.0	2901.1
5°	2908.3	2905.4	2898.6	2882.5	2888.5
7.5°	2884.6	2881.5	2869.2	2851.1	2855.3
10°	2853.2	2846.9	2829.6	2807.6	2812.2
12.5°	2812.8	2805.3	2781.4	2758.0	2763.7
15°	2761.9	2750.7	2721.5	2699.4	2706.1
17.5°	2703.2	2692.1	2657.9	2634.4	2646.3
20°	2636.8	2620.9	2582.5	2562.4	2574.3
22.5°	2564.3	2543.7	2504.9	2487.5	2499.1
25°	2484.4	2458.6	2421.3	2410.8	2424.2
27.5°	2397.8	2370.1	2334.1	2326.6	2344.6
30°	2305.9	2276.6	2237.6	2240.6	2260.3
32.5°	2212.0	2181.5	2144.2	2155.3	2174.9
35°	2113.6	2079.8	2048.9	2064.6	2088.4
37.5°	2007.9	1976.6	1947.1	1977.1	2000.1
40°	1903.9	1871.3	1847.8	1884.2	1910.2
42.5°	1795.9	1765.5	1746.8	1787.3	1817.2
45°	1682.5	1655.6	1642.8	1688.1	1717.5
47.5°	1569.6	1542.2	1537.8	1586.7	1619.5
50°	1457.3	1432.3	1431.6	1485.1	1517.9
52.5°	1340.7	1316.4	1323.7	1378.5	1416.6
55°	1226.2	1201.2	1211.1	1271.2	1309.6
57.5°	1108.5	1091.3	1101.4	1165.4	1210.9
60°	988.6	970.8	988.9	1061.6	1102.1
62.5°	872.5	854.4	871.9	949.7	975.0
65°	757.8	739.2	758.3	821.6	849.2
67.5°	645.9	627.6	653.8	709.0	725.6
70°	530.4	514.6	543.7	586.8	591.5
72.5°	423.2	409.0	441.3	465.5	462.5
75°	318.5	311.1	338.8	349.0	342.9
77.5°	227.3	223.3	245.3	247.6	242.0
80°	146.4	149.9	164.9	164.7	166.8
82.5°	84.9	91.0	101.8	115.0	117.3
85°	40.7	48.1	59.5	70.2	74.0
87.5°	14.3	19.2	24.4	26.8	26.2
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	15.51	17.09	15.87	17.40	17.72	16.01	17.59	16.37	17.90	18.22
	3H	16.93	18.36	17.31	18.68	19.04	17.55	18.98	17.93	19.30	19.66
	4H	17.35	18.68	17.75	19.03	19.41	17.97	19.31	18.37	19.66	20.03
	6H	17.56	18.79	17.97	19.16	19.55	18.18	19.42	18.59	19.78	20.17
	8H	17.59	18.76	18.01	19.15	19.55	18.23	19.41	18.66	19.80	20.20
	12H	17.59	18.72	18.02	19.10	19.53	18.26	19.39	18.69	19.77	20.20
4H	2H	16.05	17.39	16.45	17.74	18.12	16.46	17.80	16.86	18.15	18.52
	3H	17.66	18.77	18.07	19.17	19.57	18.21	19.32	18.62	19.72	20.12
	4H	18.16	19.16	18.59	19.57	20.01	18.73	19.73	19.16	20.14	20.58
	6H	18.44	19.31	18.90	19.75	20.21	19.02	19.89	19.47	20.33	20.79
	8H	18.49	19.30	18.95	19.75	20.21	19.10	19.91	19.56	20.35	20.82
	12H	18.51	19.24	18.99	19.71	20.18	19.16	19.89	19.64	20.36	20.83
8H	4H	18.37	19.18	18.83	19.62	20.09	18.89	19.70	19.35	20.14	20.61
	6H	18.71	19.38	19.21	19.87	20.35	19.24	19.91	19.73	20.40	20.88
	8H	18.79	19.39	19.30	19.90	20.38	19.36	19.96	19.87	20.47	20.95
	12H	18.83	19.36	19.34	19.86	20.42	19.46	20.00	19.97	20.49	21.05
12H	4H	18.37	19.10	18.85	19.58	20.05	18.88	19.61	19.36	20.09	20.56
	6H	18.72	19.32	19.23	19.83	20.32	19.24	19.84	19.75	20.35	20.84
	8H	18.83	19.36	19.34	19.86	20.42	19.39	19.92	19.90	20.42	20.98