

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: P1498822

Luminaire Tested: MAE-G-2-120-3STD-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498822
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-2-120-3STD-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

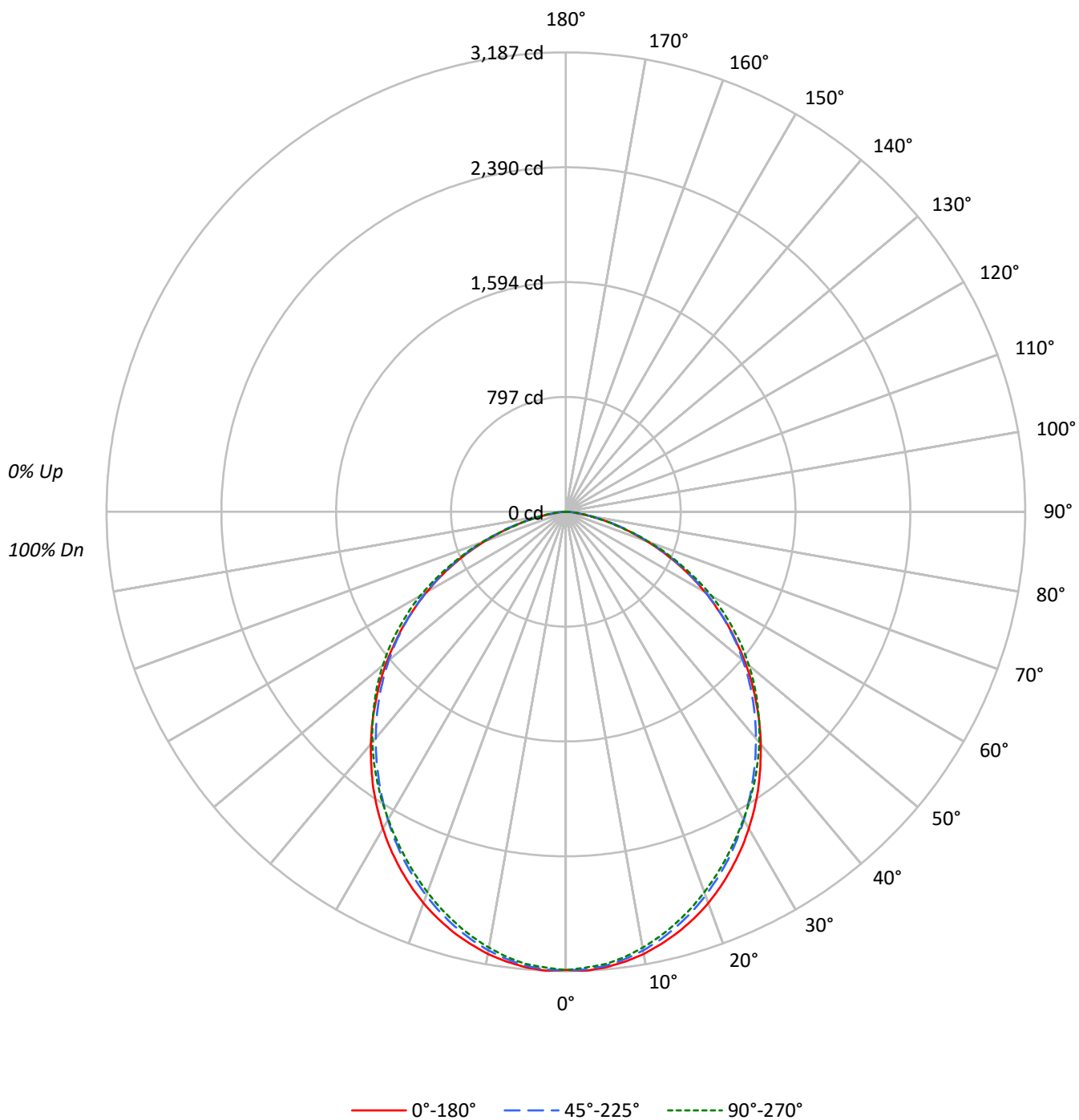
Lumens per Lamp: N/A
Luminaire Lumens: 7779.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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	42	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8555	8555	8555
5°	8570	8541	8508
10°	8511	8444	8391
15°	8409	8295	8231
20°	8273	8114	8045
25°	8094	7905	7845
30°	7889	7672	7658
35°	7656	7436	7499
40°	7392	7206	7333
45°	7106	6972	7152
50°	6793	6711	6942
55°	6438	6412	6653
60°	6001	6032	6286
65°	5457	5530	5673
70°	4708	4838	4860
75°	3749	3903	3749
80°	2537	2656	2586
85°	1315	1744	2183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	3.8
10°-20°	838.9	10.8
20°-30°	1229.0	15.8
30°-40°	1427.4	18.3
40°-50°	1427.2	18.3
50°-60°	1231.3	15.8
60°-70°	859.8	11.1
70°-80°	394.1	5.1
80°-90°	72.2	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°	2367.0	30.4
0°-40°	3794.4	48.8
0°-60°	6453.0	83.0
0°-90°	7779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3173	3160	3162	3145	3150	301
15°	3018	2998	2978	2951	2954	851
25°	2726	2697	2662	2634	2642	1255
35°	2331	2294	2264	2264	2283	1456
45°	1867	1838	1832	1859	1879	1441
55°	1372	1349	1367	1404	1418	1225
65°	857	847	868	887	891	847
75°	361	360	375	368	361	387
85°	43	47	56	66	71	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3179.3	3179.3	3179.3	3179.3	3179.3
2.5°	3186.8	3175.2	3179.3	3166.1	3165.0
5°	3172.7	3160.2	3161.9	3145.0	3149.6
7.5°	3148.2	3134.3	3131.4	3112.5	3116.5
10°	3114.9	3098.1	3090.4	3068.2	3070.9
12.5°	3070.6	3052.6	3039.2	3013.2	3017.6
15°	3018.5	2998.1	2977.5	2950.7	2954.4
17.5°	2958.1	2934.9	2909.8	2879.1	2885.6
20°	2889.0	2863.3	2833.3	2801.1	2809.2
22.5°	2811.4	2783.6	2750.0	2719.8	2727.4
25°	2726.0	2696.9	2662.5	2634.1	2642.0
27.5°	2636.1	2603.5	2567.9	2544.9	2553.9
30°	2538.9	2504.6	2469.0	2451.4	2464.7
32.5°	2436.2	2401.5	2368.0	2359.3	2375.1
35°	2330.6	2293.7	2263.6	2264.3	2282.8
37.5°	2217.1	2184.5	2158.6	2168.8	2187.4
40°	2104.4	2070.6	2051.4	2067.7	2087.6
42.5°	1987.7	1956.8	1943.0	1966.5	1984.7
45°	1867.2	1837.5	1832.1	1859.3	1879.2
47.5°	1748.2	1718.4	1719.7	1750.2	1772.2
50°	1622.6	1596.4	1603.1	1638.7	1658.2
52.5°	1496.7	1471.9	1485.7	1523.8	1543.1
55°	1372.3	1348.8	1366.6	1404.2	1418.1
57.5°	1243.3	1226.4	1246.2	1279.9	1295.0
60°	1115.0	1099.5	1120.8	1153.6	1168.0
62.5°	986.3	974.0	995.8	1024.0	1030.2
65°	857.0	846.9	868.5	886.6	890.9
67.5°	726.1	720.3	742.1	754.5	755.7
70°	598.4	591.8	614.9	622.0	617.7
72.5°	474.2	472.3	490.0	492.1	483.8
75°	360.6	359.8	375.4	368.2	360.6
77.5°	255.0	255.5	266.1	257.4	253.6
80°	163.7	168.5	171.4	169.5	166.9
82.5°	92.0	98.0	100.2	110.4	114.8
85°	42.6	47.0	56.5	66.5	70.7
87.5°	14.5	18.0	23.4	25.2	23.7
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	18.39	19.97	18.76	20.29	20.60	18.69	20.27	19.05	20.59	20.90
	3H	19.84	21.27	20.22	21.60	21.96	20.14	21.57	20.52	21.89	22.25
	4H	20.27	21.61	20.67	21.95	22.33	20.54	21.88	20.94	22.23	22.60
	6H	20.47	21.71	20.88	22.08	22.47	20.73	21.96	21.14	22.33	22.72
	8H	20.50	21.68	20.93	22.07	22.47	20.77	21.95	21.19	22.33	22.73
	12H	20.50	21.63	20.93	22.01	22.44	20.79	21.92	21.22	22.30	22.73
4H	2H	18.96	20.30	19.36	20.65	21.03	19.20	20.54	19.60	20.89	21.27
	3H	20.59	21.71	21.00	22.10	22.50	20.84	21.96	21.25	22.35	22.76
	4H	21.10	22.10	21.53	22.52	22.95	21.33	22.33	21.76	22.75	23.19
	6H	21.38	22.25	21.84	22.70	23.15	21.60	22.47	22.05	22.91	23.37
	8H	21.43	22.24	21.89	22.68	23.15	21.66	22.47	22.12	22.91	23.38
	12H	21.44	22.17	21.92	22.64	23.11	21.70	22.43	22.18	22.90	23.38
8H	4H	21.29	22.11	21.75	22.55	23.01	21.50	22.32	21.96	22.76	23.23
	6H	21.63	22.30	22.12	22.79	23.27	21.82	22.49	22.32	22.98	23.46
	8H	21.70	22.30	22.21	22.81	23.29	21.91	22.51	22.42	23.02	23.51
	12H	21.73	22.26	22.24	22.75	23.32	21.99	22.52	22.50	23.01	23.58
12H	4H	21.29	22.02	21.77	22.50	22.97	21.50	22.23	21.98	22.70	23.17
	6H	21.63	22.23	22.14	22.74	23.22	21.82	22.42	22.33	22.93	23.41
	8H	21.73	22.26	22.24	22.75	23.31	21.94	22.47	22.45	22.96	23.53