

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: P1498885

Luminaire Tested: MAE-G-2-120-3STD-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498885
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-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

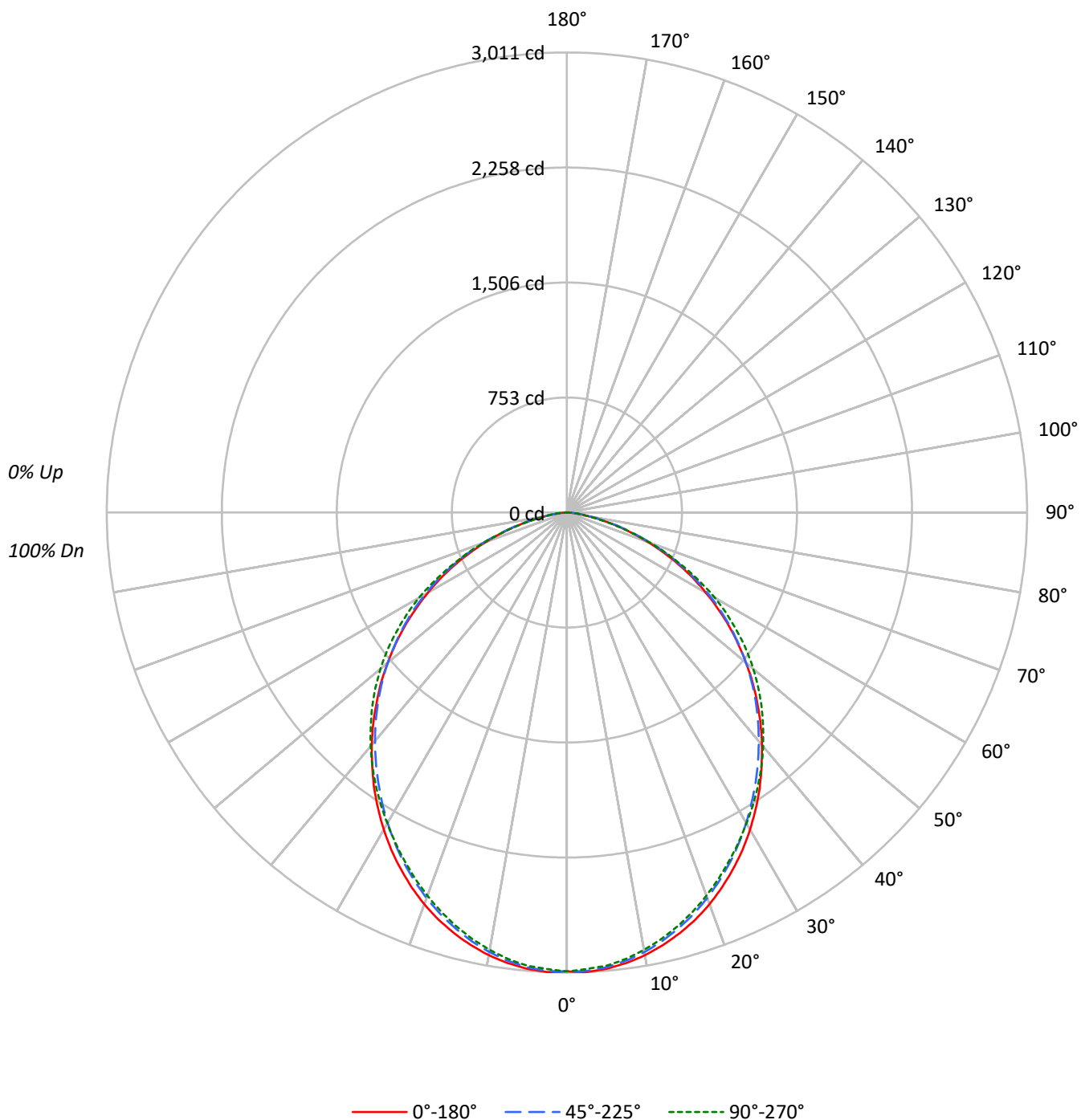
Lumens per Lamp: N/A
Luminaire Lumens: 7381.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
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	57	67	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	40	35	60	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	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8082	8082	8082
5°	8096	8070	8042
10°	8040	7984	7943
15°	7943	7851	7806
20°	7813	7690	7643
25°	7642	7501	7466
30°	7447	7288	7302
35°	7226	7072	7163
40°	6975	6861	7016
45°	6703	6645	6854
50°	6406	6402	6664
55°	6070	6122	6389
60°	5654	5762	6026
65°	5138	5279	5400
70°	4426	4593	4570
75°	3519	3660	3439
80°	2371	2417	2270
85°	1223	1535	1877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	3.8
10°-20°	794.1	10.8
20°-30°	1165.5	15.8
30°-40°	1356.2	18.4
40°-50°	1358.5	18.4
50°-60°	1173.6	15.9
60°-70°	817.2	11.1
70°-80°	368.6	5.0
80°-90°	64.7	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°	2242.3	30.4
0°-40°	3598.5	48.8
0°-60°	6130.6	83.1
0°-90°	7381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3003	3003	3003	3003	3003	
5°	2997	2985	2987	2973	2977	284
15°	2851	2833	2818	2798	2802	803
25°	2574	2550	2526	2505	2515	1185
35°	2200	2170	2153	2160	2180	1374
45°	1761	1740	1746	1779	1801	1359
55°	1294	1278	1305	1347	1362	1155
65°	807	803	829	845	848	797
75°	338	340	352	340	331	364
85°	40	43	50	58	61	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3003.3	3003.3	3003.3	3003.3	3003.3
2.5°	3010.6	2998.5	3003.3	2992.1	2990.2
5°	2997.2	2984.6	2987.4	2973.1	2977.2
7.5°	2973.9	2960.5	2959.6	2943.9	2947.6
10°	2942.3	2926.4	2922.0	2904.0	2906.7
12.5°	2900.4	2883.8	2875.0	2854.3	2858.9
15°	2851.1	2832.6	2818.2	2797.6	2801.8
17.5°	2793.9	2773.4	2756.0	2732.1	2739.0
20°	2728.3	2706.1	2685.3	2660.0	2669.0
22.5°	2654.7	2631.3	2607.7	2584.7	2593.6
25°	2573.9	2549.9	2526.4	2505.3	2514.6
27.5°	2488.8	2462.0	2438.2	2422.5	2432.8
30°	2396.7	2368.9	2345.6	2335.1	2350.0
32.5°	2299.4	2271.8	2250.7	2249.1	2266.4
35°	2199.5	2170.3	2152.7	2160.3	2180.4
37.5°	2092.0	2067.1	2054.1	2070.7	2091.1
40°	1985.5	1959.7	1953.1	1975.6	1997.3
42.5°	1875.3	1852.2	1850.8	1880.4	1900.4
45°	1761.3	1739.6	1746.2	1779.0	1800.9
47.5°	1649.1	1627.0	1639.6	1675.8	1699.5
50°	1530.1	1511.7	1529.3	1570.1	1591.8
52.5°	1411.6	1394.0	1417.7	1460.9	1481.9
55°	1293.9	1277.7	1304.8	1346.7	1361.8
57.5°	1171.9	1162.0	1190.2	1227.3	1243.1
60°	1050.6	1041.9	1070.7	1105.3	1119.7
62.5°	929.2	923.4	951.1	979.4	984.5
65°	806.9	802.9	829.1	844.9	848.1
67.5°	683.2	682.9	707.2	715.9	715.9
70°	562.6	560.9	583.8	586.9	580.9
72.5°	445.5	447.5	462.9	460.4	450.4
75°	338.5	340.5	352.0	340.1	330.8
77.5°	238.9	241.0	246.8	233.6	227.9
80°	153.0	157.6	156.0	150.3	146.5
82.5°	85.6	90.6	89.1	96.4	99.7
85°	39.6	42.7	49.7	57.5	60.8
87.5°	13.4	16.2	20.4	21.9	20.4
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	18.19	19.78	18.56	20.09	20.40	18.58	20.16	18.94	20.48	20.79
	3H	19.64	21.06	20.02	21.39	21.75	20.00	21.42	20.37	21.75	22.11
	4H	20.06	21.40	20.46	21.74	22.12	20.37	21.71	20.77	22.06	22.43
	6H	20.26	21.50	20.67	21.86	22.25	20.53	21.77	20.94	22.13	22.52
	8H	20.29	21.46	20.71	21.85	22.25	20.56	21.74	20.98	22.13	22.53
	12H	20.28	21.41	20.71	21.79	22.22	20.57	21.70	21.00	22.08	22.51
4H	2H	18.78	20.11	19.17	20.46	20.84	19.09	20.43	19.49	20.77	21.15
	3H	20.40	21.51	20.81	21.91	22.31	20.69	21.80	21.10	22.20	22.60
	4H	20.90	21.90	21.34	22.32	22.76	21.15	22.15	21.58	22.57	23.00
	6H	21.18	22.05	21.63	22.49	22.95	21.38	22.25	21.84	22.69	23.15
	8H	21.22	22.03	21.68	22.47	22.94	21.43	22.24	21.89	22.68	23.15
	12H	21.23	21.96	21.71	22.43	22.90	21.46	22.19	21.94	22.66	23.13
8H	4H	21.09	21.90	21.55	22.34	22.81	21.31	22.13	21.78	22.57	23.04
	6H	21.42	22.09	21.91	22.58	23.05	21.59	22.26	22.09	22.75	23.23
	8H	21.48	22.08	21.99	22.59	23.08	21.66	22.26	22.18	22.77	23.26
	12H	21.51	22.04	22.02	22.53	23.10	21.73	22.26	22.24	22.75	23.31
12H	4H	21.08	21.81	21.56	22.29	22.76	21.31	22.04	21.79	22.51	22.98
	6H	21.41	22.01	21.92	22.52	23.01	21.58	22.19	22.10	22.69	23.18
	8H	21.51	22.04	22.02	22.53	23.09	21.69	22.22	22.20	22.71	23.27