

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: P1498648

Luminaire Tested: MAE-G-2-120-3HI-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498648
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-2-120-3HI-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

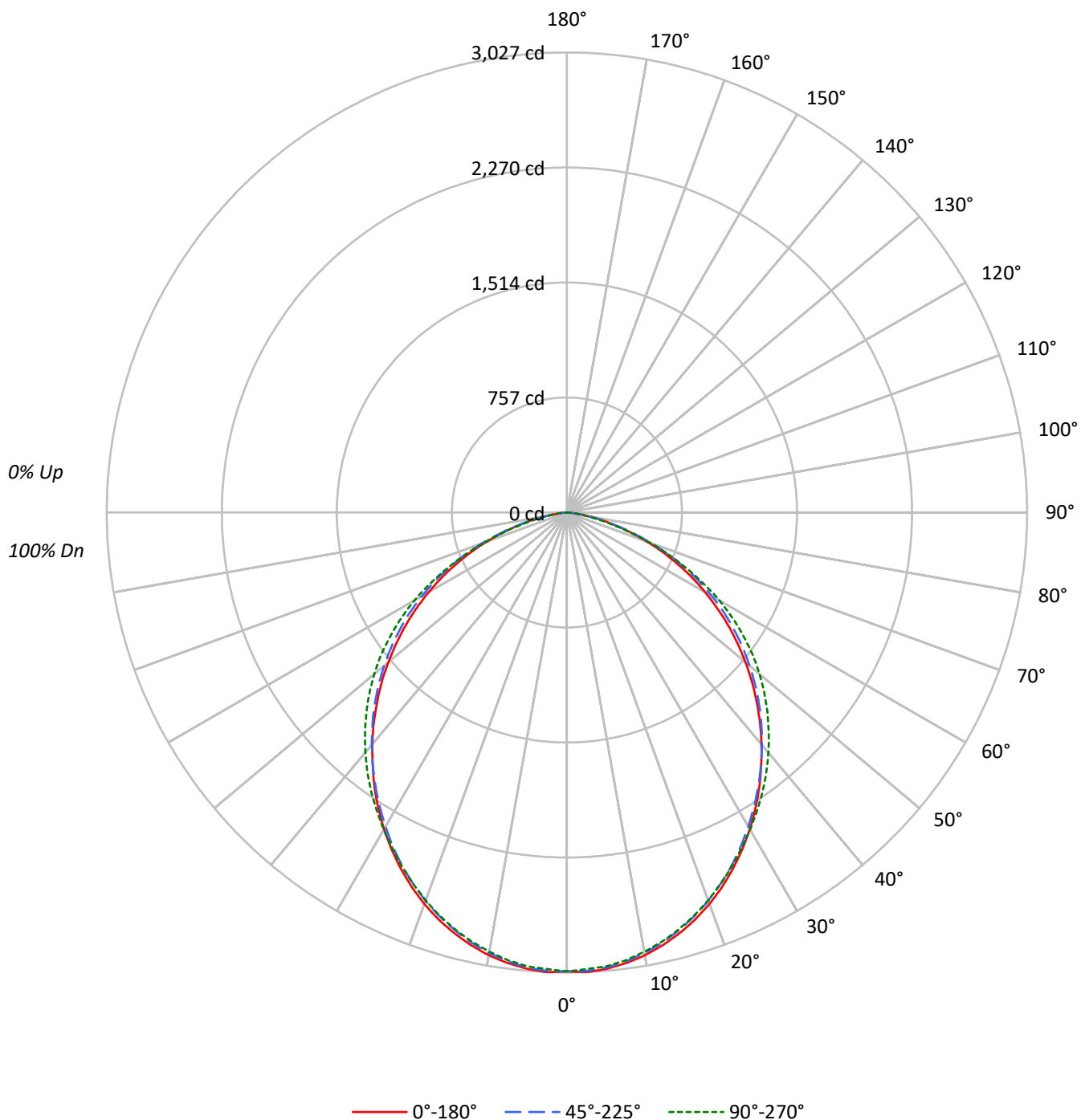
Lumens per Lamp: N/A
Luminaire Lumens: 7490.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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	101	98	107	103	99	96	99	96	93		95	93	90		91
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		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	75	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	37	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°	8125	8125	8125
5°	8140	8116	8096
10°	8082	8042	8019
15°	7983	7927	7912
20°	7850	7785	7777
25°	7676	7613	7625
30°	7475	7415	7485
35°	7250	7211	7369
40°	6994	7012	7243
45°	6718	6806	7099
50°	6416	6570	6925
55°	6077	6292	6646
60°	5655	5930	6247
65°	5129	5425	5518
70°	4407	4668	4551
75°	3490	3622	3241
80°	2331	2239	1914
85°	1176	1291	1485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	3.8
10°-20°	801.7	10.7
20°-30°	1181.5	15.8
30°-40°	1380.1	18.4
40°-50°	1387.7	18.5
50°-60°	1202.0	16.0
60°-70°	832.4	11.1
70°-80°	362.6	4.8
80°-90°	57.4	0.8
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°	2267.7	30.3
0°-40°	3647.8	48.7
0°-60°	6237.5	83.3
0°-90°	7490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3019	3019	3019	3019	3019	
5°	3013	2999	3005	2994	2997	286
15°	2866	2849	2845	2834	2840	807
25°	2585	2568	2564	2555	2568	1190
35°	2207	2189	2195	2217	2243	1379
45°	1765	1757	1788	1837	1865	1362
55°	1295	1292	1341	1397	1416	1156
65°	806	813	852	865	867	796
75°	336	344	348	326	312	361
85°	38	39	42	46	48	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3027.3	3012.7	3019.2	3010.6	3007.0
5°	3013.4	2999.1	3004.6	2993.6	2997.0
7.5°	2990.0	2975.4	2978.6	2967.4	2971.0
10°	2957.9	2941.6	2943.2	2931.3	2934.6
12.5°	2915.4	2899.5	2899.0	2886.1	2891.9
15°	2865.5	2848.8	2845.3	2834.3	2840.0
17.5°	2807.7	2790.1	2786.4	2772.9	2781.6
20°	2741.2	2723.3	2718.7	2704.0	2715.8
22.5°	2666.9	2649.1	2642.9	2631.6	2644.1
25°	2585.1	2568.4	2564.1	2555.0	2568.2
27.5°	2499.0	2480.6	2477.8	2474.7	2489.1
30°	2405.8	2387.7	2386.4	2388.9	2408.9
32.5°	2307.5	2290.6	2292.2	2304.6	2327.2
35°	2206.8	2189.2	2195.0	2217.1	2243.2
37.5°	2098.3	2085.7	2096.9	2128.5	2155.2
40°	1991.1	1977.7	1996.0	2034.0	2061.9
42.5°	1880.3	1870.2	1893.6	1938.9	1965.2
45°	1765.3	1757.2	1788.5	1836.8	1865.4
47.5°	1653.0	1643.9	1680.8	1732.5	1762.9
50°	1532.6	1527.7	1569.3	1625.5	1654.2
52.5°	1414.2	1409.3	1456.0	1514.6	1541.4
55°	1295.4	1292.2	1341.1	1397.3	1416.5
57.5°	1172.7	1175.6	1224.3	1272.6	1291.9
60°	1050.7	1054.4	1101.9	1144.4	1160.7
62.5°	928.8	935.2	978.5	1010.5	1014.1
65°	805.5	813.4	852.0	865.2	866.6
67.5°	681.2	691.7	724.2	726.4	723.9
70°	560.1	568.1	593.3	588.5	578.4
72.5°	442.4	452.7	464.9	453.1	438.8
75°	335.7	343.8	348.4	325.8	311.7
77.5°	236.2	241.4	238.3	214.6	204.5
80°	150.4	155.3	144.5	130.2	123.5
82.5°	83.3	87.0	77.8	80.1	81.6
85°	38.1	39.3	41.8	46.5	48.1
87.5°	13.1	14.6	16.8	17.6	16.2
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	18.21	19.79	18.57	20.11	20.42	18.78	20.37	19.15	20.68	20.99
	3H	19.64	21.07	20.02	21.40	21.76	20.13	21.55	20.51	21.88	22.24
	4H	20.06	21.39	20.46	21.74	22.12	20.45	21.79	20.85	22.14	22.51
	6H	20.25	21.49	20.66	21.85	22.24	20.56	21.80	20.97	22.16	22.55
	8H	20.27	21.45	20.70	21.84	22.24	20.57	21.75	20.99	22.13	22.53
	12H	20.27	21.39	20.70	21.78	22.20	20.57	21.69	21.00	22.07	22.50
4H	2H	18.82	20.15	19.22	20.50	20.88	19.28	20.62	19.68	20.97	21.34
	3H	20.42	21.53	20.83	21.93	22.33	20.81	21.92	21.22	22.32	22.72
	4H	20.92	21.92	21.35	22.33	22.77	21.21	22.20	21.64	22.62	23.06
	6H	21.19	22.05	21.64	22.49	22.95	21.37	22.24	21.83	22.68	23.14
	8H	21.22	22.03	21.68	22.47	22.94	21.39	22.20	21.85	22.64	23.11
	12H	21.23	21.95	21.71	22.43	22.90	21.40	22.13	21.88	22.60	23.07
8H	4H	21.09	21.90	21.55	22.35	22.81	21.35	22.16	21.82	22.61	23.07
	6H	21.40	22.07	21.90	22.56	23.04	21.56	22.22	22.05	22.71	23.19
	8H	21.46	22.06	21.97	22.57	23.05	21.59	22.19	22.11	22.70	23.19
	12H	21.49	22.02	22.00	22.51	23.07	21.63	22.15	22.14	22.65	23.21
12H	4H	21.08	21.81	21.57	22.29	22.76	21.35	22.07	21.83	22.55	23.02
	6H	21.39	21.99	21.90	22.50	22.98	21.54	22.14	22.06	22.65	23.14
	8H	21.48	22.00	21.99	22.50	23.06	21.61	22.14	22.12	22.63	23.19