

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: P1498726

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498726
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-2-120-3LO-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

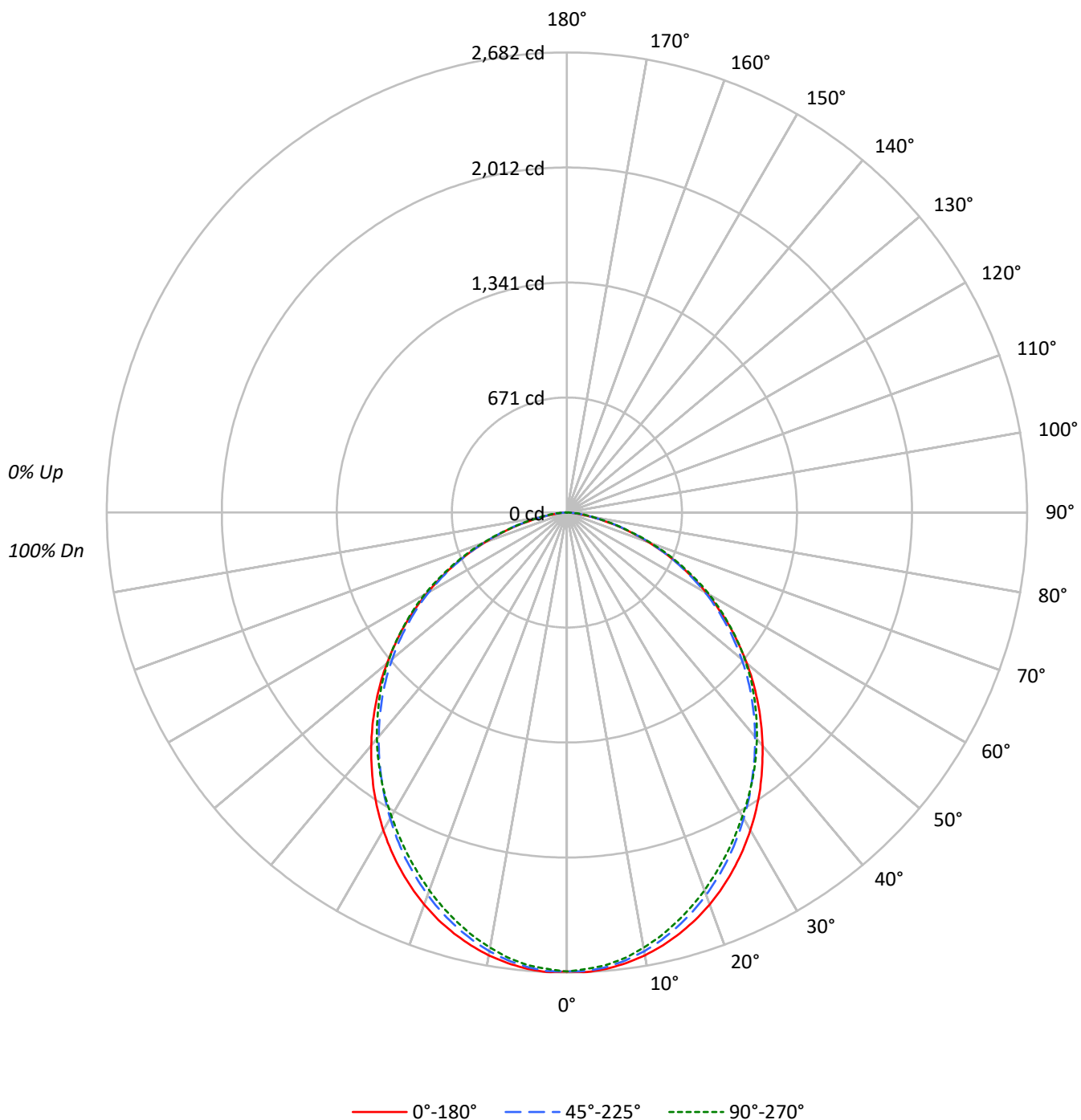
Lumens per Lamp: N/A
Luminaire Lumens: 6503.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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	92	90		91
2	100	92	86	80	98	90	85	79	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	56		66	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	41	35	61	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7201	7201	7201
5°	7213	7186	7154
10°	7163	7098	7041
15°	7079	6960	6886
20°	6966	6794	6712
25°	6817	6608	6527
30°	6646	6401	6355
35°	6453	6194	6205
40°	6233	5993	6052
45°	5993	5789	5887
50°	5732	5564	5700
55°	5435	5309	5459
60°	5069	4990	5172
65°	4616	4580	4718
70°	3990	4040	4118
75°	3185	3321	3293
80°	2170	2356	2410
85°	1139	1627	2087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5993 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	3.9
10°-20°	703.9	10.8
20°-30°	1028.2	15.8
30°-40°	1190.8	18.3
40°-50°	1187.3	18.3
50°-60°	1022.3	15.7
60°-70°	716.8	11.0
70°-80°	336.6	5.2
80°-90°	65.5	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°	1983.6	30.5
0°-40°	3174.4	48.8
0°-60°	5384.0	82.8
0°-90°	6503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2670	2661	2660	2644	2648	253
15°	2541	2523	2498	2470	2472	716
25°	2296	2267	2226	2194	2198	1057
35°	1964	1926	1886	1877	1889	1227
45°	1575	1541	1521	1534	1547	1215
55°	1158	1130	1132	1154	1164	1034
65°	725	709	719	736	741	716
75°	306	302	319	320	317	329
85°	37	42	53	63	68	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2681.7	2673.5	2675.8	2663.1	2663.2
5°	2670.1	2660.6	2660.3	2644.0	2648.3
7.5°	2649.5	2638.4	2633.5	2614.7	2618.0
10°	2621.6	2607.7	2597.5	2574.7	2576.8
12.5°	2584.6	2568.9	2552.4	2525.5	2528.5
15°	2540.9	2522.6	2498.4	2469.6	2471.8
17.5°	2490.3	2468.9	2439.1	2406.5	2411.0
20°	2432.4	2408.0	2372.6	2338.6	2343.7
22.5°	2367.4	2340.3	2301.0	2268.1	2272.2
25°	2295.9	2266.7	2225.5	2193.9	2198.2
27.5°	2220.5	2187.7	2144.4	2117.1	2122.0
30°	2139.0	2104.1	2060.1	2037.0	2045.1
32.5°	2053.0	2017.0	1974.3	1958.2	1968.1
35°	1964.2	1925.8	1885.6	1877.0	1888.9
37.5°	1869.0	1833.8	1796.6	1795.7	1807.4
40°	1774.3	1737.8	1705.9	1710.0	1722.9
42.5°	1676.1	1641.8	1614.5	1624.4	1635.9
45°	1574.9	1541.2	1521.1	1534.3	1546.9
47.5°	1474.4	1441.1	1426.8	1442.8	1457.2
50°	1369.2	1338.5	1329.1	1349.5	1361.5
52.5°	1262.7	1233.8	1231.0	1253.5	1266.1
55°	1158.4	1130.3	1131.6	1154.4	1163.5
57.5°	1049.8	1027.5	1031.3	1052.7	1063.2
60°	941.9	920.9	927.2	949.9	960.9
62.5°	833.4	815.3	824.0	845.4	851.6
65°	724.9	708.8	719.3	736.2	741.0
67.5°	614.7	603.0	616.3	630.8	633.4
70°	507.1	495.4	513.5	524.5	523.4
72.5°	402.5	395.7	412.6	420.3	416.0
75°	306.3	301.9	319.4	320.1	316.7
77.5°	217.1	215.6	230.1	229.4	229.0
80°	140.0	143.8	152.0	155.9	155.5
82.5°	79.2	85.1	91.8	103.5	108.4
85°	36.9	41.9	52.7	63.1	67.6
87.5°	12.5	16.3	22.0	23.9	22.6
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	17.79	19.38	18.16	19.69	20.01	17.95	19.53	18.31	19.85	20.16
	3H	19.26	20.68	19.63	21.01	21.37	19.46	20.88	19.84	21.21	21.57
	4H	19.68	21.02	20.08	21.37	21.75	19.90	21.24	20.30	21.59	21.96
	6H	19.90	21.13	20.31	21.50	21.89	20.13	21.37	20.54	21.73	22.13
	8H	19.93	21.11	20.35	21.49	21.89	20.19	21.37	20.61	21.76	22.16
	12H	19.93	21.06	20.36	21.44	21.87	20.22	21.35	20.65	21.74	22.16
4H	2H	18.35	19.69	18.75	20.03	20.41	18.47	19.81	18.87	20.16	20.54
	3H	19.99	21.10	20.40	21.50	21.90	20.17	21.29	20.58	21.69	22.09
	4H	20.50	21.51	20.94	21.92	22.36	20.71	21.72	21.14	22.13	22.57
	6H	20.79	21.67	21.25	22.11	22.57	21.03	21.90	21.49	22.34	22.80
	8H	20.84	21.66	21.30	22.10	22.56	21.11	21.93	21.57	22.37	22.84
	12H	20.86	21.58	21.34	22.06	22.53	21.17	21.90	21.66	22.38	22.85
8H	4H	20.70	21.52	21.17	21.96	22.43	20.89	21.71	21.35	22.15	22.62
	6H	21.05	21.72	21.55	22.21	22.69	21.27	21.95	21.77	22.44	22.91
	8H	21.13	21.73	21.64	22.24	22.72	21.39	22.00	21.91	22.51	22.99
	12H	21.17	21.70	21.67	22.19	22.75	21.50	22.03	22.01	22.53	23.09
12H	4H	20.71	21.44	21.19	21.91	22.38	20.89	21.62	21.37	22.10	22.57
	6H	21.06	21.66	21.57	22.17	22.66	21.27	21.88	21.78	22.39	22.87
	8H	21.17	21.70	21.68	22.19	22.75	21.43	21.96	21.94	22.46	23.02