

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: P1499017

Luminaire Tested: MAE-G-4-120-1LO-HI-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499017
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-4-120-1LO-HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

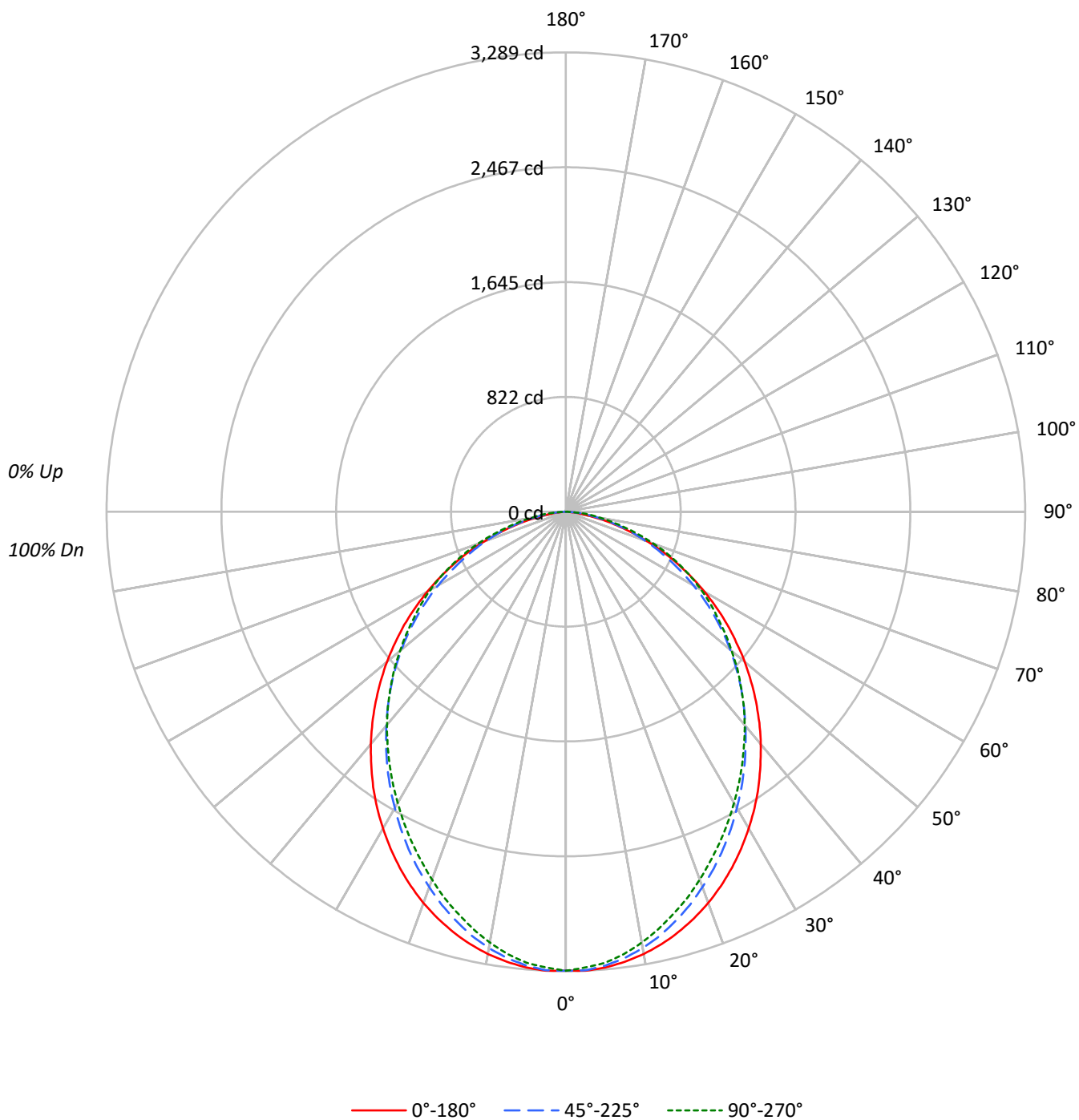
Lumens per Lamp: N/A
Luminaire Lumens: 7781.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	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	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4421	4421	4421
5°	4423	4404	4377
10°	4393	4334	4279
15°	4340	4226	4150
20°	4267	4094	4013
25°	4176	3956	3874
30°	4068	3804	3740
35°	3950	3661	3616
40°	3814	3513	3499
45°	3664	3368	3374
50°	3502	3216	3244
55°	3314	3042	3117
60°	3085	2844	3018
65°	2815	2603	2862
70°	2450	2373	2638
75°	1966	2082	2301
80°	1371	1695	1953
85°	773	1349	1812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	4.0
10°-20°	855.4	11.0
20°-30°	1236.5	15.9
30°-40°	1416.6	18.2
40°-50°	1396.1	17.9
50°-60°	1191.6	15.3
60°-70°	847.1	10.9
70°-80°	429.3	5.5
80°-90°	100.5	1.3
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°	2400.0	30.8
0°-40°	3816.6	49.0
0°-60°	6404.2	82.3
0°-90°	7781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3275	3273	3261	3233	3241	311
15°	3116	3094	3034	2978	2980	878
25°	2813	2761	2665	2609	2610	1295
35°	2405	2332	2229	2196	2202	1503
45°	1925	1854	1770	1765	1773	1485
55°	1413	1347	1297	1310	1329	1261
65°	884	832	818	874	899	874
75°	378	355	400	436	443	408
85°	50	63	87	108	117	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3285.8	3285.8	3285.8	3285.8	3285.8
2.5°	3289.4	3292.7	3285.8	3259.1	3265.1
5°	3275.0	3272.6	3260.9	3233.2	3241.0
7.5°	3249.3	3243.9	3222.8	3189.1	3193.8
10°	3215.2	3204.4	3172.1	3129.3	3132.3
12.5°	3170.7	3155.3	3109.2	3059.0	3061.3
15°	3115.5	3093.8	3033.6	2978.2	2979.6
17.5°	3052.1	3025.5	2951.8	2891.2	2896.8
20°	2980.4	2945.4	2859.5	2799.8	2802.9
22.5°	2900.7	2857.5	2765.9	2706.0	2706.1
25°	2813.1	2761.2	2664.6	2608.9	2609.5
27.5°	2719.0	2661.3	2559.5	2506.5	2510.0
30°	2618.3	2555.4	2448.5	2403.5	2407.3
32.5°	2514.3	2446.9	2340.2	2301.7	2305.6
35°	2404.9	2331.8	2228.6	2195.8	2201.6
37.5°	2287.9	2216.6	2113.5	2092.6	2097.1
40°	2171.7	2098.0	2000.1	1985.2	1992.4
42.5°	2050.5	1978.3	1886.2	1876.0	1885.1
45°	1925.4	1854.2	1769.8	1765.4	1773.3
47.5°	1798.7	1729.0	1654.2	1653.3	1664.7
50°	1673.1	1604.9	1536.2	1540.9	1549.9
52.5°	1540.0	1475.5	1418.1	1424.9	1440.5
55°	1412.6	1347.2	1296.8	1310.4	1328.9
57.5°	1280.1	1223.1	1177.9	1200.8	1226.5
60°	1146.3	1090.8	1056.9	1094.6	1121.7
62.5°	1014.1	960.4	935.4	987.1	1010.5
65°	884.2	832.1	817.7	874.0	899.1
67.5°	754.1	707.5	710.2	770.2	788.8
70°	622.8	580.7	603.2	657.4	670.5
72.5°	498.4	463.9	501.9	546.1	553.5
75°	378.1	355.4	400.4	435.7	442.6
77.5°	271.3	259.4	304.7	333.7	341.4
80°	176.9	180.5	218.7	243.4	252.0
82.5°	103.6	114.2	145.0	172.9	181.7
85°	50.1	62.7	87.4	108.3	117.4
87.5°	17.1	25.5	36.9	41.2	40.0
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	16.00	17.59	16.37	17.90	18.21	15.85	17.44	16.22	17.75	18.06
	3H	17.47	18.90	17.85	19.23	19.59	17.60	19.02	17.97	19.35	19.71
	4H	17.91	19.25	18.31	19.60	19.98	18.18	19.52	18.58	19.87	20.25
	6H	18.15	19.39	18.56	19.75	20.14	18.57	19.81	18.99	20.18	20.57
	8H	18.18	19.37	18.61	19.76	20.16	18.70	19.88	19.13	20.27	20.67
	12H	18.19	19.32	18.62	19.71	20.13	18.79	19.92	19.22	20.31	20.74
4H	2H	16.49	17.83	16.89	18.18	18.55	16.37	17.71	16.76	18.05	18.43
	3H	18.15	19.27	18.56	19.67	20.07	18.32	19.44	18.73	19.83	20.24
	4H	18.68	19.69	19.11	20.10	20.54	19.03	20.04	19.46	20.45	20.89
	6H	19.00	19.87	19.45	20.31	20.77	19.54	20.42	20.00	20.86	21.32
	8H	19.06	19.88	19.52	20.32	20.79	19.71	20.53	20.17	20.97	21.44
	12H	19.08	19.82	19.56	20.30	20.77	19.84	20.58	20.33	21.06	21.53
8H	4H	18.92	19.74	19.38	20.18	20.65	19.23	20.05	19.70	20.50	20.96
	6H	19.31	19.99	19.80	20.48	20.95	19.84	20.52	20.34	21.01	21.49
	8H	19.40	20.01	19.92	20.52	21.01	20.08	20.69	20.59	21.19	21.68
	12H	19.46	20.00	19.97	20.49	21.06	20.28	20.82	20.79	21.31	21.88
12H	4H	18.94	19.67	19.42	20.15	20.62	19.24	19.97	19.72	20.45	20.92
	6H	19.34	19.95	19.85	20.46	20.95	19.85	20.46	20.37	20.97	21.46
	8H	19.48	20.02	19.99	20.51	21.07	20.14	20.68	20.65	21.17	21.73