

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: P1499632

Luminaire Tested: MAE-G-4-120-3LO-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499632
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-4-120-3LO-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

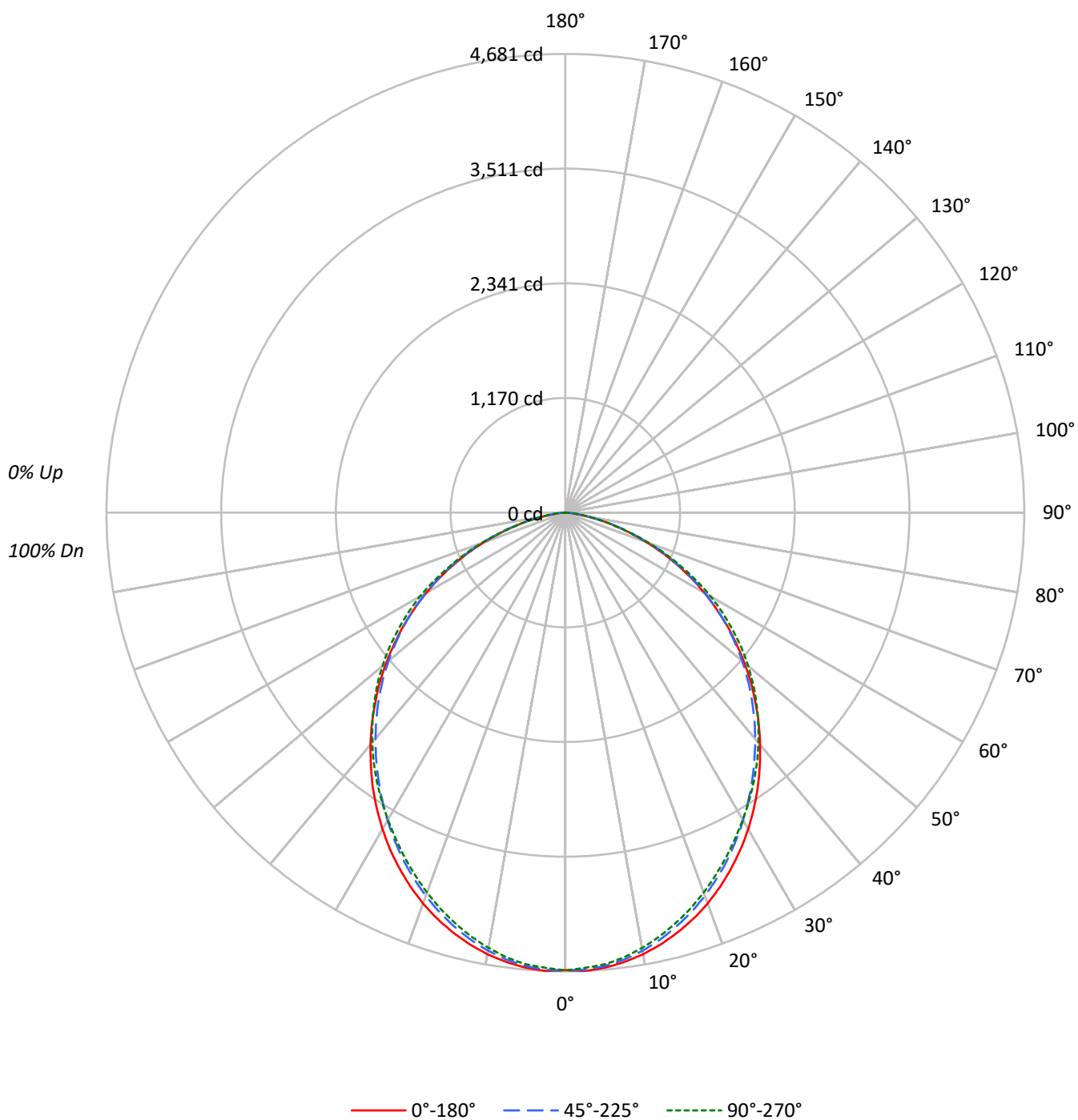
Lumens per Lamp: N/A
Luminaire Lumens: 11424.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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	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	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	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6283	6283	6283
5°	6294	6273	6249
10°	6251	6202	6162
15°	6176	6092	6044
20°	6076	5958	5907
25°	5945	5805	5759
30°	5794	5633	5622
35°	5623	5459	5505
40°	5429	5290	5382
45°	5219	5119	5249
50°	4989	4927	5095
55°	4729	4707	4882
60°	4408	4428	4613
65°	4009	4060	4165
70°	3458	3552	3570
75°	2754	2867	2758
80°	1864	1953	1905
85°	969	1286	1610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5249 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	3.8
10°-20°	1232.1	10.8
20°-30°	1804.9	15.8
30°-40°	2096.1	18.3
40°-50°	2095.7	18.3
50°-60°	1807.9	15.8
60°-70°	1262.5	11.1
70°-80°	579.1	5.1
80°-90°	106.3	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°	3476.4	30.4
0°-40°	5572.5	48.8
0°-60°	9476.1	82.9
0°-90°	11424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4670	4670	4670	4670	4670	
5°	4660	4642	4644	4620	4626	442
15°	4434	4404	4373	4334	4339	1249
25°	4004	3961	3910	3868	3879	1844
35°	3423	3369	3324	3324	3351	2139
45°	2743	2699	2690	2729	2758	2116
55°	2016	1981	2006	2061	2081	1800
65°	1259	1244	1275	1302	1308	1244
75°	530	528	552	541	530	569
85°	63	69	83	98	104	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4670.0	4670.0	4670.0	4670.0	4670.0
2.5°	4681.0	4664.0	4670.0	4650.6	4648.9
5°	4660.3	4642.1	4644.3	4619.5	4626.4
7.5°	4624.2	4604.0	4599.6	4571.6	4577.5
10°	4575.4	4550.8	4539.4	4506.4	4510.5
12.5°	4510.4	4483.9	4463.9	4425.5	4432.0
15°	4433.9	4403.7	4373.3	4333.5	4338.9
17.5°	4345.2	4311.0	4273.6	4228.3	4237.7
20°	4243.7	4205.7	4161.2	4113.4	4125.3
22.5°	4129.6	4088.5	4038.7	3993.8	4004.9
25°	4004.2	3961.2	3910.1	3867.9	3879.4
27.5°	3872.3	3824.1	3771.0	3736.8	3749.9
30°	3729.3	3678.8	3625.7	3599.5	3618.8
32.5°	3578.6	3527.3	3477.3	3464.2	3487.0
35°	3423.4	3369.1	3323.8	3324.5	3351.3
37.5°	3256.7	3208.6	3169.6	3184.0	3211.1
40°	3091.2	3041.2	3012.1	3035.6	3064.4
42.5°	2919.8	2874.0	2852.8	2886.8	2913.4
45°	2742.9	2698.7	2690.0	2729.4	2758.5
47.5°	2568.1	2523.8	2524.8	2569.3	2601.3
50°	2383.6	2344.6	2353.7	2405.6	2433.9
52.5°	2198.7	2161.7	2181.1	2236.6	2264.8
55°	2015.9	1981.0	2006.4	2061.0	2081.3
57.5°	1826.5	1801.2	1829.6	1878.6	1900.8
60°	1637.9	1614.7	1645.5	1693.3	1714.4
62.5°	1448.8	1430.5	1461.9	1503.2	1512.3
65°	1259.1	1243.7	1275.1	1301.7	1308.2
67.5°	1066.7	1058.0	1089.6	1108.1	1110.0
70°	879.1	869.0	902.9	913.7	907.4
72.5°	696.7	693.6	719.9	723.3	711.1
75°	529.7	528.4	551.5	541.3	530.5
77.5°	374.7	375.3	391.2	378.7	373.3
80°	240.6	247.5	252.0	249.7	245.9
82.5°	135.2	144.0	147.7	162.8	169.2
85°	62.8	69.2	83.3	98.0	104.3
87.5°	21.3	26.5	34.5	37.2	35.0
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	17.32	18.90	17.68	19.22	19.53	17.61	19.19	17.98	19.51	19.82
	3H	18.77	20.20	19.15	20.52	20.89	19.07	20.49	19.44	20.82	21.18
	4H	19.20	20.53	19.59	20.88	21.26	19.47	20.80	19.86	21.15	21.53
	6H	19.40	20.64	19.81	21.00	21.40	19.65	20.89	20.07	21.26	21.65
	8H	19.43	20.61	19.85	21.00	21.40	19.69	20.87	20.12	21.26	21.66
	12H	19.43	20.56	19.86	20.94	21.37	19.72	20.85	20.15	21.23	21.66
4H	2H	17.89	19.23	18.29	19.58	19.95	18.13	19.46	18.52	19.81	20.19
	3H	19.52	20.63	19.93	21.03	21.43	19.77	20.88	20.18	21.28	21.68
	4H	20.03	21.03	20.46	21.45	21.88	20.26	21.26	20.69	21.68	22.11
	6H	20.31	21.18	20.77	21.62	22.08	20.53	21.40	20.98	21.84	22.30
	8H	20.35	21.17	20.82	21.61	22.08	20.58	21.40	21.05	21.84	22.31
	12H	20.37	21.09	20.85	21.57	22.04	20.63	21.36	21.11	21.83	22.30
8H	4H	20.22	21.03	20.68	21.48	21.94	20.43	21.24	20.89	21.69	22.15
	6H	20.56	21.23	21.05	21.72	22.19	20.75	21.42	21.24	21.91	22.39
	8H	20.63	21.23	21.14	21.73	22.22	20.84	21.44	21.35	21.95	22.44
	12H	20.66	21.19	21.17	21.68	22.25	20.92	21.45	21.43	21.95	22.51
12H	4H	20.22	20.95	20.70	21.42	21.89	20.43	21.15	20.91	21.63	22.10
	6H	20.55	21.16	21.07	21.67	22.15	20.75	21.35	21.26	21.86	22.34
	8H	20.66	21.19	21.17	21.68	22.24	20.87	21.40	21.38	21.89	22.46