

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: P1499365

Luminaire Tested: MAE-G-4-120-2LO-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

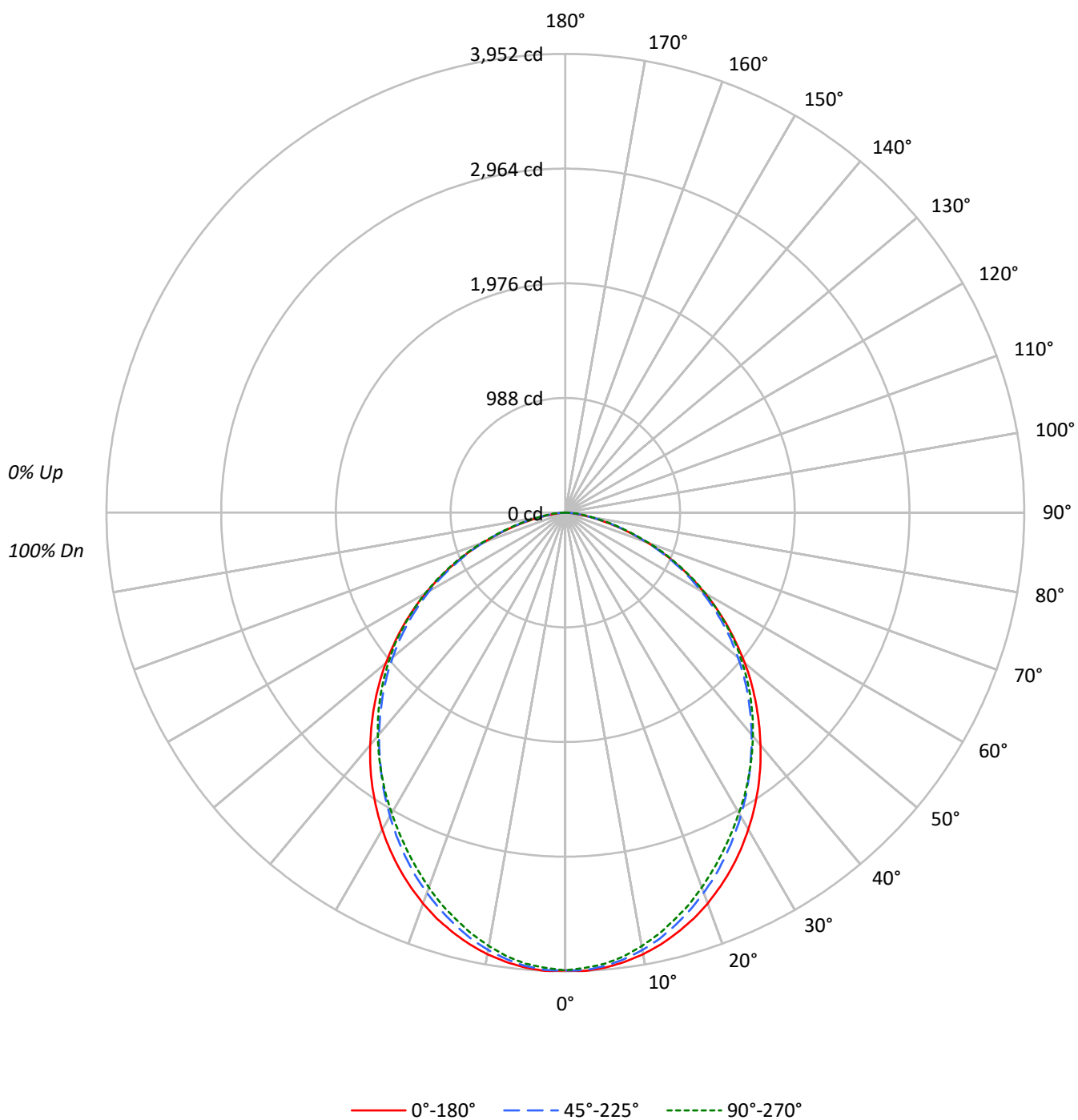
Lumens per Lamp: N/A
Luminaire Lumens: 9537.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5307	5307	5307
5°	5314	5296	5269
10°	5278	5227	5179
15°	5214	5121	5056
20°	5130	4990	4921
25°	5023	4847	4775
30°	4897	4692	4644
35°	4755	4533	4529
40°	4592	4382	4413
45°	4416	4229	4292
50°	4224	4065	4145
55°	4003	3873	3971
60°	3737	3637	3755
65°	3402	3333	3443
70°	2944	2937	3022
75°	2351	2427	2470
80°	1603	1757	1844
85°	837	1233	1610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4416 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	3.9
10°-20°	1035.6	10.9
20°-30°	1509.8	15.8
30°-40°	1746.1	18.3
40°-50°	1738.1	18.2
50°-60°	1494.2	15.7
60°-70°	1047.5	11.0
70°-80°	496.2	5.2
80°-90°	98.8	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°	2916.1	30.6
0°-40°	4662.1	48.9
0°-60°	7894.5	82.8
0°-90°	9537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3944	3944	3944	3944	3944	
5°	3935	3922	3921	3895	3901	373
15°	3743	3715	3676	3629	3630	1055
25°	3384	3338	3265	3215	3217	1558
35°	2895	2834	2760	2744	2757	1809
45°	2321	2264	2222	2238	2256	1790
55°	1706	1660	1651	1679	1693	1524
65°	1069	1041	1047	1069	1081	1057
75°	452	442	467	473	475	487
85°	54	62	80	97	104	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3944.1	3944.1	3944.1	3944.1	3944.1
2.5°	3951.6	3941.0	3944.1	3924.3	3924.9
5°	3934.7	3921.9	3920.8	3895.1	3900.9
7.5°	3904.5	3888.8	3880.6	3850.6	3855.5
10°	3862.9	3842.8	3826.0	3788.8	3791.0
12.5°	3809.4	3785.6	3758.3	3714.7	3717.9
15°	3742.9	3715.2	3676.1	3628.9	3630.0
17.5°	3669.4	3638.2	3585.2	3534.6	3539.6
20°	3582.8	3547.4	3485.0	3432.5	3437.0
22.5°	3486.8	3445.9	3379.8	3327.0	3327.8
25°	3383.7	3337.9	3264.6	3215.1	3216.7
27.5°	3272.2	3221.0	3144.8	3098.9	3103.3
30°	3152.2	3097.7	3019.8	2982.2	2989.1
32.5°	3025.9	2969.2	2892.5	2865.8	2877.5
35°	2894.9	2834.2	2759.6	2744.1	2757.1
37.5°	2758.2	2698.4	2628.2	2623.4	2636.9
40°	2614.3	2556.6	2494.9	2497.5	2512.6
42.5°	2469.0	2412.8	2360.2	2370.5	2386.8
45°	2320.8	2264.5	2222.5	2238.5	2255.8
47.5°	2172.8	2116.8	2084.6	2105.2	2120.9
50°	2018.1	1966.3	1942.0	1965.9	1980.4
52.5°	1860.6	1812.5	1797.7	1824.7	1844.4
55°	1706.3	1660.2	1651.1	1678.9	1692.9
57.5°	1547.2	1508.4	1503.8	1530.0	1544.7
60°	1388.6	1352.3	1351.7	1379.6	1395.5
62.5°	1228.4	1195.5	1200.2	1226.7	1239.2
65°	1068.7	1041.3	1046.8	1068.8	1081.3
67.5°	910.6	885.8	896.8	921.0	927.4
70°	748.4	729.3	746.6	764.9	768.2
72.5°	598.0	581.2	602.2	615.3	615.8
75°	452.3	442.1	466.9	473.0	475.1
77.5°	320.1	319.0	337.7	344.2	347.4
80°	206.9	213.6	226.8	236.9	238.0
82.5°	117.2	125.1	138.6	158.3	165.9
85°	54.2	62.5	79.9	96.9	104.3
87.5°	18.3	24.5	33.8	36.7	34.9
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	16.73	18.31	17.09	18.63	18.94	16.81	18.39	17.17	18.71	19.02
	3H	18.20	19.63	18.58	19.95	20.31	18.33	19.76	18.71	20.09	20.45
	4H	18.63	19.97	19.03	20.32	20.69	18.79	20.13	19.19	20.48	20.86
	6H	18.84	20.08	19.26	20.45	20.84	19.05	20.29	19.46	20.65	21.04
	8H	18.87	20.05	19.30	20.44	20.84	19.11	20.29	19.54	20.68	21.08
	12H	18.87	20.00	19.30	20.39	20.82	19.15	20.28	19.58	20.67	21.10
4H	2H	17.27	18.61	17.67	18.96	19.33	17.33	18.67	17.73	19.02	19.40
	3H	18.92	20.04	19.33	20.43	20.83	19.05	20.16	19.46	20.56	20.96
	4H	19.44	20.44	19.87	20.86	21.29	19.61	20.61	20.04	21.03	21.46
	6H	19.73	20.60	20.19	21.05	21.50	19.95	20.82	20.41	21.27	21.72
	8H	19.78	20.59	20.24	21.04	21.50	20.04	20.86	20.51	21.30	21.77
	12H	19.80	20.52	20.28	21.00	21.47	20.12	20.85	20.60	21.32	21.79
8H	4H	19.64	20.45	20.10	20.89	21.36	19.79	20.61	20.25	21.05	21.52
	6H	19.99	20.66	20.49	21.15	21.63	20.20	20.88	20.70	21.37	21.84
	8H	20.07	20.67	20.58	21.18	21.67	20.34	20.94	20.85	21.45	21.94
	12H	20.11	20.64	20.62	21.13	21.69	20.46	20.99	20.96	21.48	22.04
12H	4H	19.64	20.37	20.12	20.85	21.32	19.79	20.52	20.27	21.00	21.47
	6H	20.00	20.60	20.51	21.11	21.60	20.20	20.81	20.72	21.32	21.80
	8H	20.11	20.64	20.62	21.13	21.70	20.38	20.91	20.89	21.40	21.96

END OF REPORT