

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: P1499338

Luminaire Tested: MAE-G-4-120-2LO-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499338
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-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

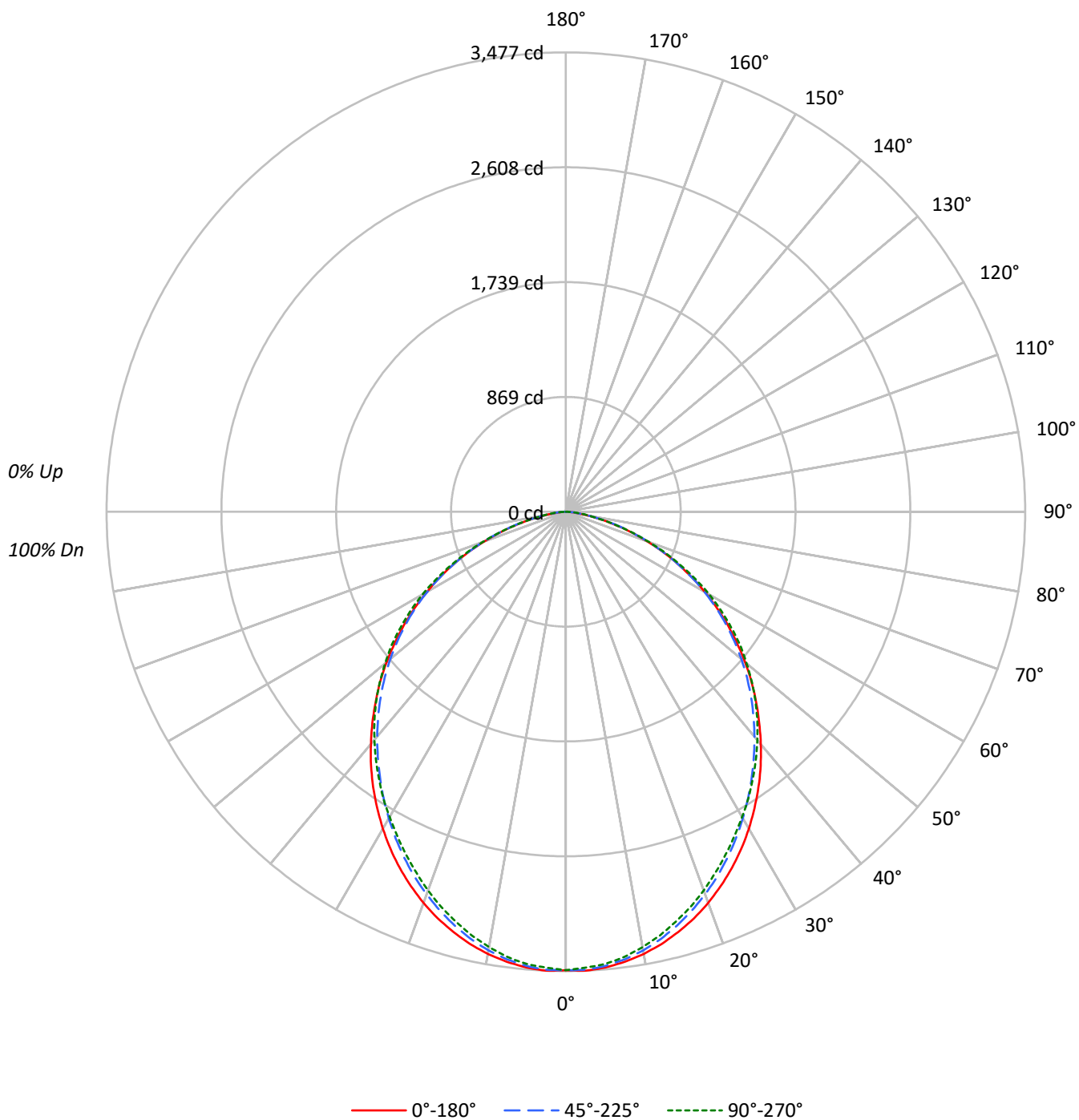
Lumens per Lamp: N/A
Luminaire Lumens: 8446.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4669	4669	4669
5°	4676	4660	4640
10°	4643	4605	4570
15°	4586	4519	4475
20°	4511	4412	4368
25°	4416	4293	4250
30°	4304	4163	4144
35°	4177	4028	4053
40°	4032	3902	3960
45°	3876	3772	3863
50°	3706	3631	3740
55°	3510	3463	3586
60°	3275	3256	3380
65°	2977	2979	3064
70°	2571	2601	2638
75°	2049	2108	2083
80°	1388	1464	1468
85°	712	979	1249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	3.9
10°-20°	913.9	10.8
20°-30°	1336.2	15.8
30°-40°	1549.8	18.3
40°-50°	1547.0	18.3
50°-60°	1332.6	15.8
60°-70°	930.0	11.0
70°-80°	429.6	5.1
80°-90°	80.6	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°	2576.4	30.5
0°-40°	4126.2	48.9
0°-60°	7005.9	82.9
0°-90°	8446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3470	3470	3470	3470	3470	
5°	3462	3449	3451	3431	3435	328
15°	3292	3269	3244	3210	3212	928
25°	2975	2941	2892	2858	2862	1369
35°	2543	2500	2453	2451	2468	1589
45°	2037	1999	1982	2009	2030	1571
55°	1496	1467	1476	1513	1528	1336
65°	935	921	936	952	962	925
75°	394	390	406	402	401	424
85°	46	52	63	76	81	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3476.9	3465.6	3469.9	3454.7	3453.8
5°	3461.8	3449.2	3450.6	3430.6	3435.2
7.5°	3435.1	3420.6	3416.8	3394.2	3398.4
10°	3398.3	3380.4	3370.7	3343.0	3345.2
12.5°	3350.9	3330.7	3313.7	3281.8	3285.5
15°	3292.0	3269.2	3243.9	3210.5	3212.5
17.5°	3227.2	3202.4	3166.8	3131.3	3137.0
20°	3150.4	3123.2	3081.3	3044.3	3050.4
22.5°	3065.5	3034.6	2990.8	2954.2	2957.5
25°	2974.6	2940.6	2891.6	2858.4	2862.5
27.5°	2876.1	2838.1	2788.2	2758.4	2765.4
30°	2770.0	2730.2	2679.7	2657.7	2667.5
32.5°	2658.4	2617.7	2568.6	2557.0	2571.7
35°	2543.0	2499.5	2452.6	2451.4	2467.5
37.5°	2422.7	2380.0	2337.9	2346.5	2363.3
40°	2295.5	2255.4	2221.3	2236.6	2254.8
42.5°	2167.5	2129.0	2103.0	2125.3	2145.0
45°	2037.0	1998.7	1982.1	2009.2	2030.1
47.5°	1907.2	1868.6	1860.4	1891.6	1910.4
50°	1770.5	1736.1	1734.5	1768.2	1786.7
52.5°	1632.6	1600.8	1606.6	1643.0	1665.5
55°	1496.3	1466.7	1476.4	1512.6	1528.5
57.5°	1356.3	1332.8	1345.4	1377.6	1393.4
60°	1216.9	1195.3	1209.8	1240.6	1256.0
62.5°	1076.0	1057.2	1073.9	1099.7	1109.7
65°	935.2	921.2	935.6	952.2	962.3
67.5°	796.7	783.5	799.2	815.1	818.9
70°	653.6	645.2	661.2	670.6	670.6
72.5°	521.9	513.7	528.8	532.4	529.7
75°	394.1	389.8	405.5	402.0	400.6
77.5°	278.0	280.1	288.3	285.7	285.1
80°	179.1	185.3	188.9	190.8	189.5
82.5°	100.7	106.4	111.9	125.2	130.3
85°	46.1	51.9	63.4	75.8	80.9
87.5°	15.6	20.1	26.6	28.6	27.1
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	16.28	17.86	16.65	18.18	18.49	16.50	18.09	16.87	18.40	18.72
	3H	17.75	19.17	18.12	19.50	19.86	17.97	19.40	18.35	19.72	20.08
	4H	18.17	19.51	18.57	19.86	20.23	18.39	19.72	18.79	20.07	20.45
	6H	18.38	19.61	18.79	19.98	20.37	18.59	19.83	19.01	20.20	20.59
	8H	18.40	19.58	18.83	19.97	20.37	18.64	19.82	19.06	20.21	20.61
	12H	18.40	19.53	18.83	19.91	20.34	18.67	19.79	19.10	20.18	20.61
4H	2H	16.84	18.18	17.24	18.52	18.90	17.02	18.36	17.42	18.71	19.08
	3H	18.48	19.59	18.89	19.99	20.39	18.67	19.79	19.08	20.18	20.58
	4H	18.99	19.99	19.42	20.41	20.84	19.18	20.18	19.61	20.60	21.03
	6H	19.28	20.15	19.73	20.59	21.05	19.47	20.34	19.92	20.78	21.24
	8H	19.32	20.13	19.78	20.58	21.04	19.54	20.35	20.00	20.79	21.26
	12H	19.33	20.06	19.81	20.54	21.01	19.59	20.31	20.07	20.79	21.26
8H	4H	19.18	19.99	19.64	20.44	20.90	19.35	20.16	19.81	20.61	21.07
	6H	19.52	20.19	20.02	20.68	21.16	19.70	20.37	20.19	20.86	21.33
	8H	19.59	20.19	20.10	20.70	21.19	19.80	20.40	20.31	20.91	21.40
	12H	19.63	20.16	20.14	20.65	21.21	19.89	20.42	20.40	20.91	21.48
12H	4H	19.18	19.91	19.66	20.38	20.85	19.35	20.08	19.83	20.55	21.02
	6H	19.52	20.12	20.03	20.63	21.12	19.69	20.30	20.21	20.80	21.29
	8H	19.63	20.16	20.13	20.65	21.21	19.83	20.36	20.34	20.86	21.42