

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: P1499332

Luminaire Tested: MAE-G-4-120-2LO-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499332
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-40-90-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

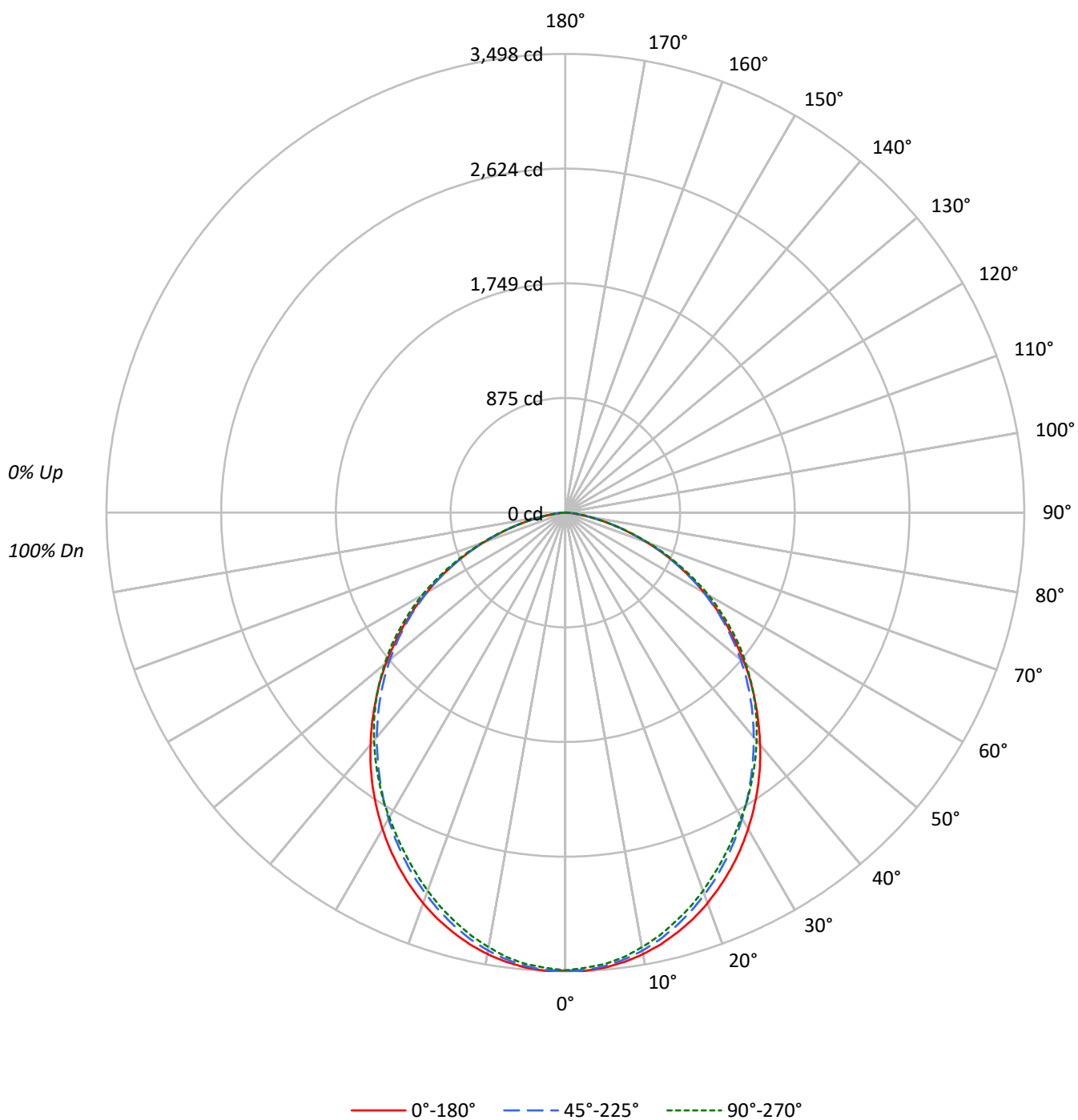
Lumens per Lamp: N/A
Luminaire Lumens: 8496.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4696	4696	4696
5°	4703	4688	4667
10°	4670	4632	4597
15°	4613	4545	4501
20°	4538	4438	4393
25°	4442	4318	4275
30°	4329	4188	4169
35°	4202	4052	4077
40°	4056	3925	3984
45°	3899	3794	3886
50°	3728	3652	3762
55°	3531	3484	3607
60°	3294	3275	3400
65°	2995	2996	3082
70°	2587	2616	2653
75°	2061	2120	2095
80°	1396	1473	1477
85°	718	985	1255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	3.9
10°-20°	919.3	10.8
20°-30°	1344.1	15.8
30°-40°	1558.9	18.3
40°-50°	1556.2	18.3
50°-60°	1340.5	15.8
60°-70°	935.5	11.0
70°-80°	432.1	5.1
80°-90°	81.0	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°	2591.7	30.5
0°-40°	4150.6	48.9
0°-60°	7047.4	82.9
0°-90°	8496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3482	3470	3471	3451	3456	330
15°	3312	3289	3263	3230	3232	933
25°	2992	2958	2909	2875	2879	1377
35°	2558	2514	2467	2466	2482	1599
45°	2049	2010	1994	2021	2042	1581
55°	1505	1475	1485	1522	1538	1344
65°	941	927	941	958	968	931
75°	396	392	408	404	403	427
85°	46	52	64	76	81	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3497.5	3486.1	3490.5	3475.1	3474.2
5°	3482.2	3469.6	3470.9	3450.9	3455.5
7.5°	3455.5	3440.9	3436.9	3414.3	3418.5
10°	3418.4	3400.3	3390.6	3362.8	3365.0
12.5°	3370.7	3350.4	3333.3	3301.3	3304.9
15°	3311.6	3288.6	3263.1	3229.5	3231.5
17.5°	3246.3	3221.4	3185.6	3149.8	3155.6
20°	3169.1	3141.7	3099.5	3062.4	3068.4
22.5°	3083.6	3052.6	3008.5	2971.6	2975.0
25°	2992.2	2958.0	2908.8	2875.3	2879.4
27.5°	2893.1	2854.9	2804.7	2774.7	2781.7
30°	2786.5	2746.4	2695.6	2673.5	2683.3
32.5°	2674.1	2633.1	2583.9	2572.2	2586.9
35°	2558.0	2514.3	2467.2	2465.9	2482.2
37.5°	2437.1	2394.1	2351.8	2360.4	2377.3
40°	2309.1	2268.8	2234.5	2249.9	2268.2
42.5°	2180.4	2141.6	2115.5	2137.9	2157.7
45°	2049.0	2010.5	1993.9	2021.1	2042.1
47.5°	1918.5	1879.6	1871.4	1902.7	1921.7
50°	1781.0	1746.4	1744.8	1778.8	1797.2
52.5°	1642.2	1610.2	1616.2	1652.6	1675.3
55°	1505.2	1475.4	1485.2	1521.5	1537.5
57.5°	1364.3	1340.7	1353.4	1385.8	1401.7
60°	1224.1	1202.3	1216.9	1247.9	1263.5
62.5°	1082.4	1063.4	1080.2	1106.2	1116.3
65°	940.8	926.6	941.2	957.9	968.0
67.5°	801.5	788.1	804.0	820.0	823.7
70°	657.5	649.1	665.0	674.6	674.5
72.5°	524.9	516.7	531.9	535.5	532.8
75°	396.5	392.1	407.8	404.5	403.0
77.5°	279.7	281.8	290.0	287.4	286.8
80°	180.2	186.5	190.1	191.9	190.6
82.5°	101.3	107.0	112.5	125.8	131.1
85°	46.5	52.2	63.8	76.1	81.3
87.5°	15.7	20.1	26.8	28.8	27.3
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	16.30	17.88	16.67	18.20	18.51	16.53	18.11	16.89	18.42	18.74
	3H	17.77	19.19	18.14	19.52	19.88	17.99	19.42	18.37	19.74	20.10
	4H	18.19	19.53	18.59	19.88	20.25	18.41	19.74	18.81	20.09	20.47
	6H	18.40	19.63	18.81	20.00	20.39	18.61	19.85	19.03	20.22	20.61
	8H	18.43	19.60	18.85	19.99	20.39	18.66	19.84	19.09	20.23	20.63
	12H	18.42	19.55	18.85	19.93	20.36	18.69	19.82	19.12	20.20	20.63
4H	2H	16.86	18.20	17.26	18.55	18.92	17.04	18.38	17.44	18.73	19.10
	3H	18.50	19.61	18.91	20.01	20.41	18.69	19.81	19.10	20.20	20.61
	4H	19.01	20.01	19.44	20.43	20.86	19.20	20.20	19.63	20.62	21.05
	6H	19.30	20.17	19.75	20.61	21.07	19.49	20.36	19.94	20.80	21.26
	8H	19.34	20.15	19.80	20.60	21.06	19.56	20.37	20.02	20.81	21.28
	12H	19.35	20.08	19.83	20.56	21.03	19.61	20.34	20.09	20.81	21.28
8H	4H	19.20	20.01	19.66	20.46	20.92	19.37	20.19	19.83	20.63	21.10
	6H	19.54	20.21	20.04	20.70	21.18	19.72	20.39	20.21	20.88	21.36
	8H	19.61	20.21	20.12	20.72	21.21	19.82	20.42	20.33	20.93	21.42
	12H	19.65	20.18	20.16	20.67	21.23	19.91	20.44	20.42	20.93	21.50
12H	4H	19.20	19.93	19.68	20.40	20.87	19.37	20.10	19.85	20.57	21.04
	6H	19.54	20.14	20.05	20.65	21.14	19.71	20.32	20.23	20.83	21.31
	8H	19.65	20.18	20.15	20.67	21.23	19.85	20.38	20.36	20.88	21.44