

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: P1499329

Luminaire Tested: MAE-G-4-120-2LO-LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499329
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-35-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

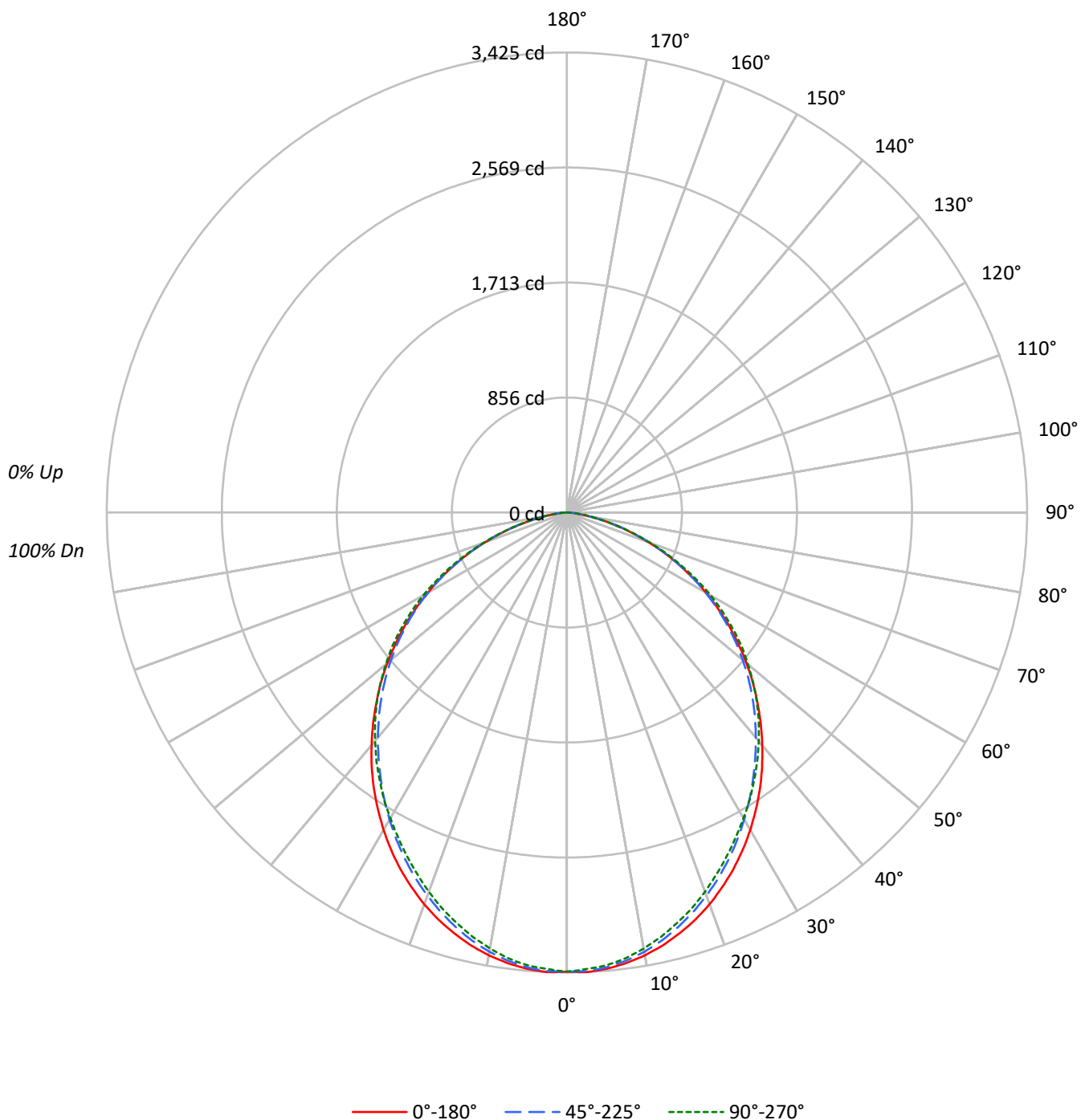
Lumens per Lamp: N/A
Luminaire Lumens: 8320.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4599	4599	4599
5°	4606	4591	4570
10°	4574	4536	4502
15°	4517	4451	4408
20°	4444	4346	4303
25°	4350	4229	4186
30°	4239	4101	4082
35°	4115	3969	3993
40°	3972	3843	3901
45°	3818	3715	3805
50°	3651	3576	3684
55°	3458	3412	3532
60°	3226	3207	3330
65°	2933	2934	3018
70°	2533	2562	2599
75°	2018	2076	2051
80°	1367	1442	1447
85°	702	963	1230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	3.9
10°-20°	900.2	10.8
20°-30°	1316.3	15.8
30°-40°	1526.6	18.3
40°-50°	1524.0	18.3
50°-60°	1312.8	15.8
60°-70°	916.1	11.0
70°-80°	423.2	5.1
80°-90°	79.3	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°	2538.0	30.5
0°-40°	4064.6	48.9
0°-60°	6901.4	82.9
0°-90°	8320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3418	3418	3418	3418	3418	
5°	3410	3398	3399	3379	3384	323
15°	3243	3220	3196	3163	3164	914
25°	2930	2897	2848	2816	2820	1349
35°	2505	2462	2416	2415	2431	1566
45°	2007	1969	1953	1979	2000	1548
55°	1474	1445	1454	1490	1506	1316
65°	921	907	922	938	948	912
75°	388	384	399	396	395	418
85°	46	51	62	75	80	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3418.1	3418.1	3418.1	3418.1	3418.1
2.5°	3425.0	3413.9	3418.1	3403.2	3402.2
5°	3410.1	3397.8	3399.1	3379.4	3383.9
7.5°	3383.9	3369.6	3365.7	3343.6	3347.7
10°	3347.5	3329.9	3320.4	3293.1	3295.3
12.5°	3300.9	3281.0	3264.3	3232.9	3236.5
15°	3243.0	3220.5	3195.5	3162.6	3164.5
17.5°	3179.0	3154.7	3119.6	3084.5	3090.2
20°	3103.5	3076.7	3035.3	2998.9	3004.9
22.5°	3019.7	2989.3	2946.2	2910.1	2913.3
25°	2930.2	2896.7	2848.5	2815.8	2819.8
27.5°	2833.1	2795.8	2746.6	2717.3	2724.1
30°	2728.7	2689.5	2639.7	2618.0	2627.7
32.5°	2618.8	2578.6	2530.3	2518.9	2533.2
35°	2505.0	2462.3	2416.1	2414.8	2430.7
37.5°	2386.6	2344.5	2303.0	2311.5	2328.1
40°	2261.3	2221.8	2188.2	2203.2	2221.1
42.5°	2135.3	2097.2	2071.7	2093.7	2113.0
45°	2006.6	1968.8	1952.6	1979.2	1999.9
47.5°	1878.7	1840.7	1832.6	1863.3	1881.9
50°	1744.1	1710.2	1708.6	1741.9	1760.0
52.5°	1608.2	1576.8	1582.6	1618.5	1640.6
55°	1474.0	1444.8	1454.5	1489.9	1505.6
57.5°	1336.1	1312.9	1325.4	1357.1	1372.6
60°	1198.7	1177.5	1191.7	1222.1	1237.3
62.5°	1059.9	1041.4	1057.8	1083.3	1093.1
65°	921.4	907.4	921.6	938.0	947.9
67.5°	784.9	771.8	787.3	803.0	806.6
70°	643.9	635.6	651.3	660.7	660.6
72.5°	514.1	506.0	520.9	524.4	521.8
75°	388.2	384.0	399.4	396.0	394.6
77.5°	273.9	275.9	284.0	281.4	280.8
80°	176.4	182.6	186.1	187.9	186.7
82.5°	99.2	104.8	110.2	123.2	128.5
85°	45.5	51.1	62.4	74.6	79.7
87.5°	15.4	19.8	26.2	28.2	26.7
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	16.23	17.81	16.59	18.13	18.44	16.45	18.04	16.82	18.35	18.66
	3H	17.69	19.12	18.07	19.44	19.81	17.92	19.34	18.30	19.67	20.03
	4H	18.12	19.46	18.52	19.80	20.18	18.33	19.67	18.73	20.02	20.40
	6H	18.33	19.56	18.74	19.93	20.32	18.54	19.78	18.95	20.14	20.53
	8H	18.35	19.53	18.78	19.92	20.32	18.59	19.77	19.01	20.16	20.56
	12H	18.35	19.48	18.78	19.86	20.29	18.61	19.74	19.04	20.12	20.55
4H	2H	16.79	18.12	17.19	18.47	18.85	16.97	18.31	17.37	18.65	19.03
	3H	18.43	19.54	18.84	19.94	20.34	18.62	19.73	19.03	20.13	20.53
	4H	18.94	19.94	19.37	20.35	20.79	19.13	20.13	19.56	20.54	20.98
	6H	19.22	20.09	19.68	20.54	20.99	19.42	20.29	19.87	20.73	21.19
	8H	19.27	20.08	19.73	20.52	20.99	19.48	20.30	19.95	20.74	21.21
	12H	19.28	20.01	19.76	20.48	20.96	19.53	20.26	20.02	20.74	21.21
8H	4H	19.13	19.94	19.59	20.38	20.85	19.30	20.11	19.76	20.56	21.02
	6H	19.47	20.14	19.96	20.63	21.11	19.64	20.32	20.14	20.81	21.28
	8H	19.54	20.14	20.05	20.65	21.14	19.75	20.35	20.26	20.86	21.34
	12H	19.57	20.11	20.08	20.60	21.16	19.84	20.37	20.35	20.86	21.42
12H	4H	19.13	19.85	19.61	20.33	20.80	19.30	20.02	19.78	20.50	20.97
	6H	19.47	20.07	19.98	20.58	21.07	19.64	20.24	20.15	20.75	21.24
	8H	19.57	20.10	20.08	20.60	21.16	19.78	20.31	20.29	20.80	21.37