

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: P1498414

Luminaire Tested: MAE-G-2-120-2LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498414
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-2-120-2LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

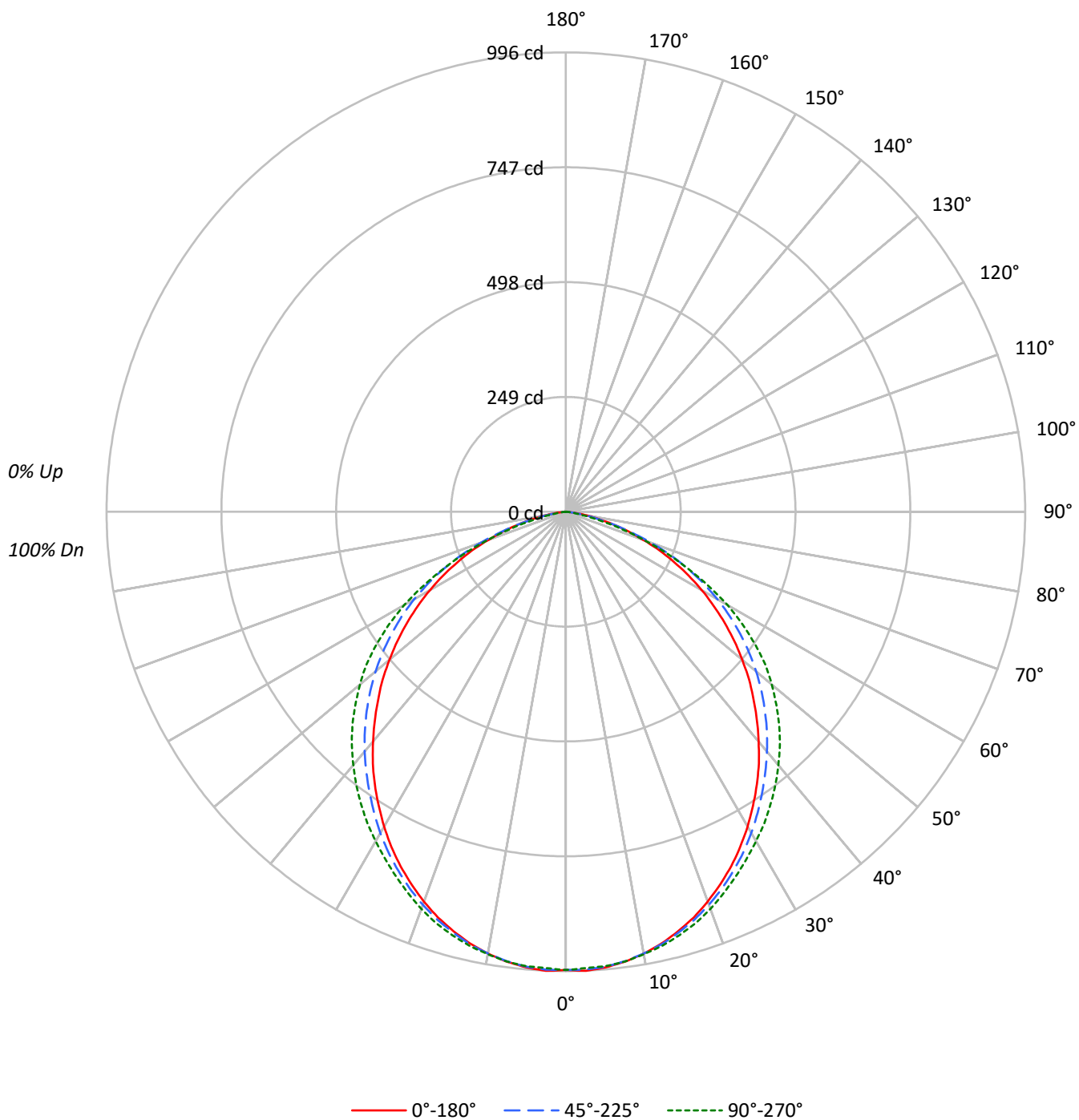
Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2673	2673	2673
5°	2678	2674	2671
10°	2658	2658	2661
15°	2622	2632	2648
20°	2576	2597	2624
25°	2518	2551	2589
30°	2449	2499	2562
35°	2372	2438	2542
40°	2284	2383	2518
45°	2191	2324	2491
50°	2089	2254	2441
55°	1974	2164	2349
60°	1834	2043	2181
65°	1654	1856	1867
70°	1412	1544	1444
75°	1108	1119	901
80°	721	575	346
85°	333	219	176

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.7
10°-20°	266.2	10.6
20°-30°	395.4	15.8
30°-40°	465.7	18.6
40°-50°	471.8	18.8
50°-60°	410.7	16.4
60°-70°	279.8	11.2
70°-80°	111.9	4.5
80°-90°	12.8	0.5
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°	755.4	30.1
0°-40°	1221.1	48.7
0°-60°	2103.5	83.9
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	992	986	990	988	989	94
15°	941	937	945	948	950	265
25°	848	848	859	866	872	390
35°	722	725	742	762	774	451
45°	576	583	611	639	654	444
55°	421	430	461	490	501	376
65°	260	272	292	292	293	257
75°	107	113	108	92	87	115
85°	11	10	7	6	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.5	993.5	993.5	993.5	993.5
2.5°	996.3	989.9	993.5	992.9	990.2
5°	991.5	985.8	989.9	988.5	988.8
7.5°	983.8	978.4	982.8	982.4	983.5
10°	972.7	967.3	972.7	973.0	974.0
12.5°	958.8	954.1	960.5	961.9	964.2
15°	941.3	937.2	944.6	948.1	950.4
17.5°	922.4	919.7	927.1	931.5	935.2
20°	899.4	898.1	906.9	911.2	916.3
22.5°	874.5	873.8	884.3	889.7	894.7
25°	848.1	848.5	859.3	866.4	872.1
27.5°	819.1	819.8	833.0	841.4	848.5
30°	788.1	789.8	804.3	815.8	824.6
32.5°	755.4	758.4	773.9	789.8	800.9
35°	722.0	725.4	742.2	761.8	773.9
37.5°	687.6	691.3	710.9	733.8	746.6
40°	650.2	655.8	678.5	703.8	716.9
42.5°	613.3	619.7	645.1	672.8	686.9
45°	575.6	582.7	610.6	639.3	654.5
47.5°	539.1	545.2	575.2	605.3	618.8
50°	499.0	507.1	538.5	568.5	583.0
52.5°	460.5	468.3	500.4	531.0	545.9
55°	420.7	429.8	461.2	490.2	500.6
57.5°	380.6	391.0	421.4	445.3	454.4
60°	340.8	351.2	379.6	398.4	405.2
62.5°	300.6	311.4	336.4	347.9	349.2
65°	259.8	271.9	291.5	291.9	293.2
67.5°	221.0	231.1	245.3	241.2	239.2
70°	179.5	190.6	196.3	188.3	183.5
72.5°	142.7	150.8	149.8	138.0	132.3
75°	106.6	113.0	107.6	92.5	86.7
77.5°	73.9	79.3	68.5	54.3	48.6
80°	46.5	48.9	37.1	26.3	22.3
82.5°	25.0	24.6	15.9	13.1	12.2
85°	10.8	9.8	7.1	6.4	5.7
87.5°	3.7	3.4	2.7	2.4	2.0
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	14.33	15.91	14.70	16.23	16.54	15.29	16.88	15.66	17.19	17.50
	3H	15.75	17.17	16.13	17.50	17.86	16.48	17.90	16.86	18.23	18.59
	4H	16.15	17.48	16.55	17.83	18.20	16.70	18.03	17.10	18.38	18.76
	6H	16.32	17.55	16.73	17.92	18.31	16.72	17.95	17.13	18.31	18.70
	8H	16.33	17.51	16.76	17.90	18.30	16.69	17.87	17.12	18.25	18.65
	12H	16.32	17.45	16.75	17.83	18.26	16.67	17.79	17.10	18.17	18.60
4H	2H	14.99	16.33	15.39	16.67	17.05	15.77	17.10	16.17	17.45	17.83
	3H	16.57	17.68	16.98	18.07	18.48	17.12	18.22	17.53	18.62	19.02
	4H	17.05	18.04	17.48	18.45	18.89	17.39	18.38	17.82	18.79	19.23
	6H	17.29	18.15	17.74	18.59	19.05	17.44	18.30	17.89	18.74	19.20
	8H	17.31	18.11	17.77	18.56	19.02	17.41	18.22	17.87	18.66	19.13
	12H	17.31	18.03	17.79	18.50	18.97	17.39	18.11	17.87	18.59	19.06
8H	4H	17.18	17.99	17.65	18.43	18.90	17.50	18.30	17.96	18.75	19.21
	6H	17.46	18.12	17.96	18.61	19.09	17.56	18.22	18.06	18.71	19.19
	8H	17.50	18.09	18.01	18.60	19.08	17.54	18.13	18.05	18.64	19.12
	12H	17.51	18.03	18.02	18.52	19.09	17.52	18.04	18.03	18.53	19.10
12H	4H	17.17	17.88	17.65	18.36	18.83	17.49	18.21	17.97	18.68	19.15
	6H	17.43	18.02	17.94	18.53	19.02	17.54	18.13	18.05	18.64	19.12
	8H	17.49	18.01	18.00	18.50	19.07	17.54	18.06	18.05	18.55	19.11