

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: P1499185

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499185
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-4-120-2HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

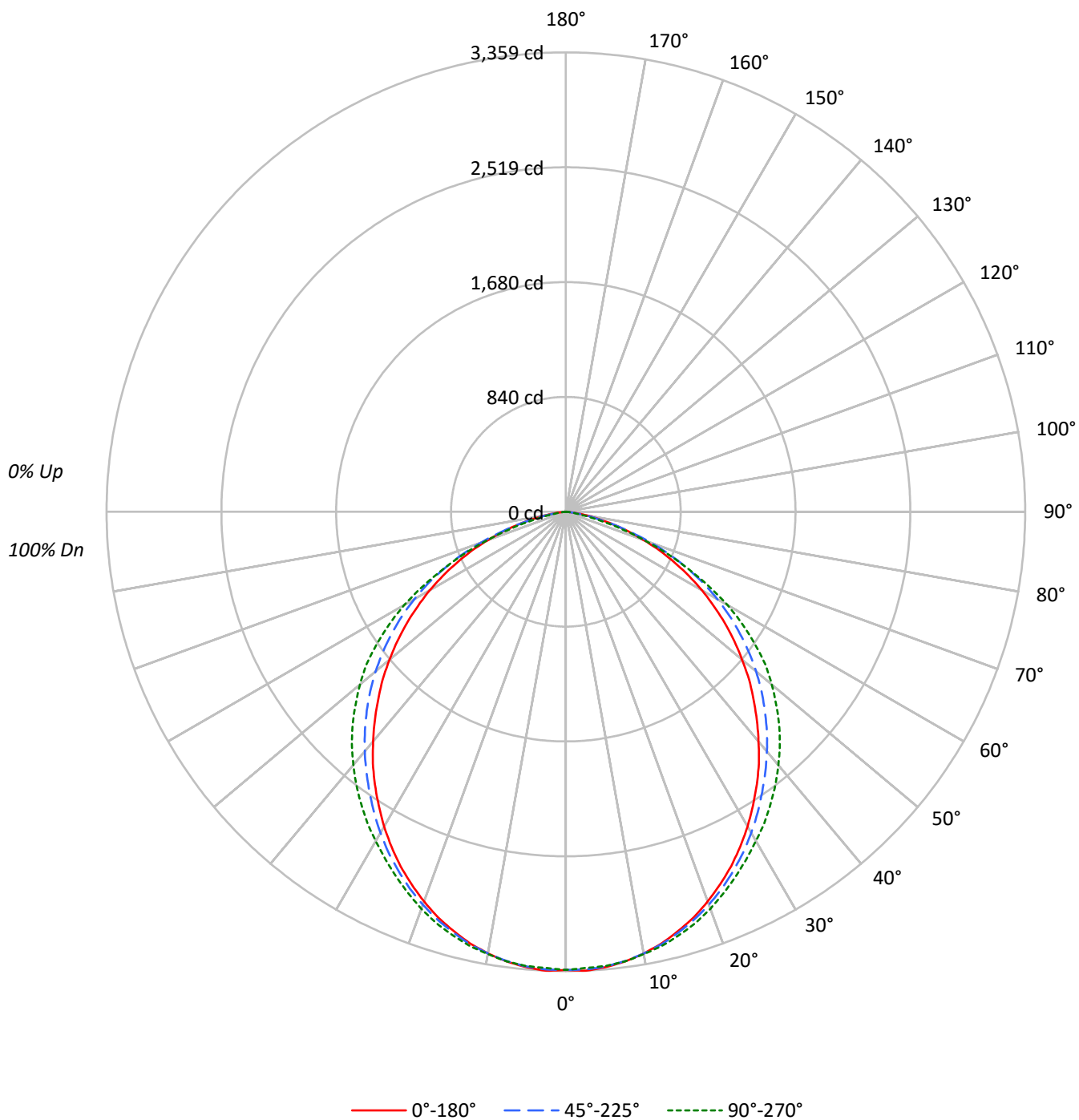
Lumens per Lamp: N/A
Luminaire Lumens: 8456.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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°	4507	4507	4507
5°	4515	4508	4503
10°	4480	4480	4487
15°	4421	4436	4463
20°	4342	4378	4424
25°	4245	4301	4365
30°	4128	4213	4319
35°	3998	4111	4286
40°	3850	4018	4245
45°	3693	3918	4199
50°	3522	3800	4114
55°	3328	3648	3960
60°	3092	3444	3676
65°	2789	3129	3147
70°	2381	2604	2434
75°	1869	1886	1520
80°	1216	970	583
85°	563	369	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	3.7
10°-20°	897.4	10.6
20°-30°	1333.1	15.8
30°-40°	1570.2	18.6
40°-50°	1590.7	18.8
50°-60°	1384.6	16.4
60°-70°	943.4	11.2
70°-80°	377.2	4.5
80°-90°	43.2	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°	2546.8	30.1
0°-40°	4116.9	48.7
0°-60°	7092.2	83.9
0°-90°	8456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3350	3350	3350	3350	3350	
5°	3343	3324	3338	3333	3334	317
15°	3174	3160	3185	3196	3204	894
25°	2860	2861	2897	2921	2940	1316
35°	2434	2446	2503	2568	2609	1521
45°	1941	1964	2059	2156	2207	1498
55°	1418	1449	1555	1653	1688	1267
65°	876	917	983	984	989	868
75°	360	381	363	312	292	387
85°	36	33	24	22	19	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3349.8	3349.8	3349.8	3349.8	3349.8
2.5°	3359.1	3337.5	3349.8	3347.6	3338.5
5°	3343.0	3323.7	3337.5	3333.0	3334.0
7.5°	3316.9	3298.8	3313.6	3312.4	3315.9
10°	3279.4	3261.3	3279.4	3280.4	3284.0
12.5°	3232.7	3216.8	3238.5	3243.0	3251.0
15°	3173.6	3160.0	3184.9	3196.5	3204.3
17.5°	3110.0	3100.9	3125.8	3140.7	3153.2
20°	3032.6	3028.0	3057.7	3072.3	3089.4
22.5°	2948.3	2946.1	2981.5	2999.6	3016.7
25°	2859.6	2860.8	2897.3	2921.2	2940.5
27.5°	2761.8	2764.0	2808.5	2837.0	2860.8
30°	2657.2	2663.0	2711.7	2750.5	2780.1
32.5°	2546.8	2557.1	2609.4	2663.0	2700.4
35°	2434.2	2445.8	2502.6	2568.4	2609.4
37.5°	2318.3	2330.9	2396.7	2474.2	2517.4
40°	2192.1	2211.2	2287.6	2372.8	2417.1
42.5°	2067.9	2089.5	2175.0	2268.3	2316.0
45°	1940.7	1964.5	2058.8	2155.6	2206.7
47.5°	1817.7	1838.1	1939.4	2040.7	2086.2
50°	1682.5	1709.6	1815.5	1916.8	1965.6
52.5°	1552.7	1578.9	1687.0	1790.3	1840.6
55°	1418.5	1449.1	1555.0	1652.8	1688.0
57.5°	1283.2	1318.4	1420.7	1501.4	1532.1
60°	1149.0	1184.2	1279.7	1343.3	1366.2
62.5°	1013.4	1049.9	1134.1	1172.8	1177.4
65°	875.9	916.9	982.8	984.0	988.6
67.5°	745.2	779.1	826.9	813.3	806.5
70°	605.2	642.6	662.0	634.8	618.7
72.5°	481.2	508.4	505.1	465.1	446.0
75°	359.5	381.1	362.8	311.8	292.4
77.5°	249.2	267.3	230.8	183.0	163.9
80°	156.9	164.9	125.2	88.7	75.2
82.5°	84.2	83.0	53.6	44.2	41.0
85°	36.5	32.9	23.9	21.6	19.4
87.5°	12.6	11.3	9.1	8.0	6.8
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	16.15	17.73	16.51	18.04	18.36	17.11	18.69	17.47	19.00	19.32
	3H	17.57	18.99	17.95	19.32	19.68	18.30	19.72	18.68	20.04	20.41
	4H	17.96	19.29	18.36	19.64	20.02	18.51	19.85	18.91	20.19	20.57
	6H	18.14	19.37	18.55	19.73	20.12	18.53	19.76	18.94	20.13	20.52
	8H	18.15	19.32	18.57	19.71	20.11	18.51	19.68	18.93	20.07	20.47
	12H	18.14	19.26	18.57	19.64	20.07	18.48	19.60	18.91	19.99	20.41
4H	2H	16.81	18.14	17.21	18.49	18.87	17.58	18.91	17.98	19.26	19.64
	3H	18.39	19.49	18.80	19.89	20.29	18.93	20.04	19.34	20.43	20.84
	4H	18.86	19.85	19.29	20.27	20.71	19.20	20.19	19.63	20.61	21.04
	6H	19.10	19.96	19.56	20.40	20.86	19.25	20.11	19.71	20.55	21.01
	8H	19.12	19.93	19.59	20.37	20.84	19.23	20.03	19.69	20.47	20.94
	12H	19.12	19.84	19.60	20.32	20.79	19.21	19.92	19.69	20.40	20.87
8H	4H	19.00	19.80	19.46	20.24	20.71	19.31	20.12	19.78	20.56	21.03
	6H	19.27	19.94	19.77	20.43	20.90	19.37	20.03	19.87	20.53	21.00
	8H	19.31	19.90	19.83	20.41	20.90	19.35	19.94	19.86	20.45	20.94
	12H	19.32	19.85	19.83	20.34	20.90	19.34	19.86	19.84	20.35	20.91
12H	4H	18.98	19.70	19.46	20.17	20.65	19.30	20.02	19.79	20.50	20.97
	6H	19.24	19.84	19.76	20.34	20.83	19.35	19.94	19.86	20.45	20.94
	8H	19.31	19.83	19.82	20.32	20.88	19.35	19.87	19.86	20.36	20.93