

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: P1499197

Luminaire Tested: MAE-G-4-120-2HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499197
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-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

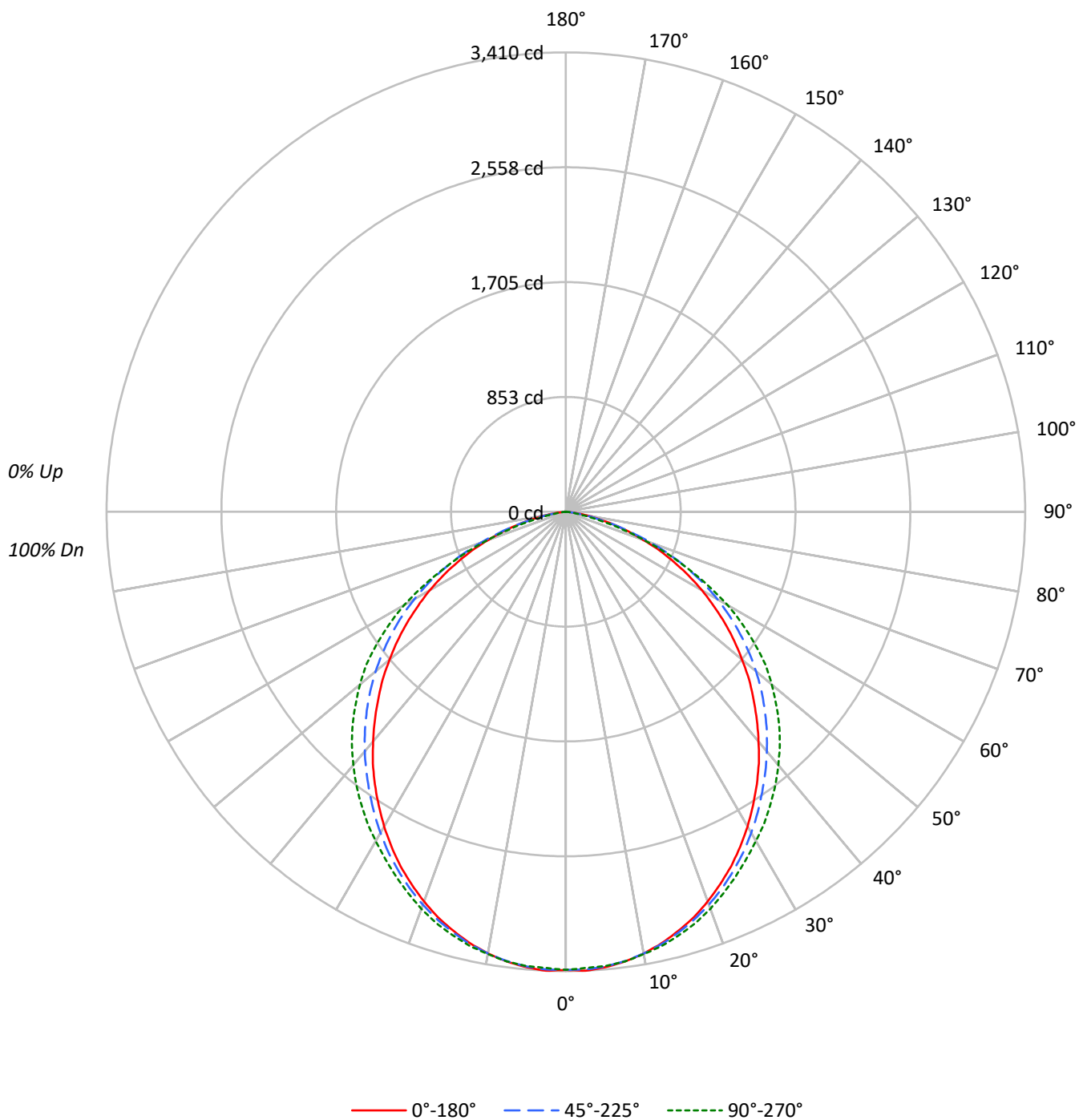
Lumens per Lamp: N/A
Luminaire Lumens: 8584.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4575	4575	4575
5°	4584	4576	4571
10°	4548	4548	4555
15°	4488	4504	4531
20°	4408	4444	4490
25°	4310	4366	4431
30°	4191	4277	4385
35°	4059	4173	4351
40°	3909	4079	4310
45°	3749	3977	4262
50°	3575	3858	4177
55°	3378	3703	4020
60°	3139	3496	3732
65°	2831	3176	3195
70°	2417	2644	2471
75°	1897	1915	1543
80°	1234	985	591
85°	571	374	304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	3.7
10°-20°	910.9	10.6
20°-30°	1353.2	15.8
30°-40°	1593.9	18.6
40°-50°	1614.8	18.8
50°-60°	1405.5	16.4
60°-70°	957.7	11.2
70°-80°	382.9	4.5
80°-90°	43.8	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°	2585.3	30.1
0°-40°	4179.3	48.7
0°-60°	7199.6	83.9
0°-90°	8584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	3394	3374	3388	3383	3384	322
15°	3222	3208	3233	3245	3253	908
25°	2903	2904	2941	2965	2985	1336
35°	2471	2483	2540	2607	2649	1545
45°	1970	1994	2090	2188	2240	1520
55°	1440	1471	1578	1678	1714	1286
65°	889	931	998	999	1004	881
75°	365	387	368	316	297	393
85°	37	33	24	22	20	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3400.5	3400.5	3400.5	3400.5	3400.5
2.5°	3410.0	3388.0	3400.5	3398.2	3389.1
5°	3393.7	3374.0	3388.0	3383.4	3384.5
7.5°	3367.1	3348.7	3363.8	3362.5	3366.1
10°	3329.1	3310.7	3329.1	3330.1	3333.7
12.5°	3281.6	3265.5	3287.5	3292.1	3300.2
15°	3221.6	3207.9	3233.1	3244.9	3252.8
17.5°	3157.1	3147.9	3173.1	3188.2	3201.0
20°	3078.5	3073.9	3104.0	3118.8	3136.1
22.5°	2993.0	2990.7	3026.6	3045.0	3062.4
25°	2902.9	2904.1	2941.2	2965.4	2985.0
27.5°	2803.6	2805.9	2851.1	2879.9	2904.1
30°	2697.4	2703.3	2752.8	2792.1	2822.2
32.5°	2585.4	2595.8	2648.9	2703.3	2741.3
35°	2471.0	2482.8	2540.5	2607.3	2648.9
37.5°	2353.4	2366.1	2433.0	2511.6	2555.5
40°	2225.3	2244.7	2322.2	2408.8	2453.7
42.5°	2099.2	2121.1	2207.9	2302.6	2351.1
45°	1970.0	1994.3	2090.0	2188.3	2240.1
47.5°	1845.2	1865.9	1968.8	2071.6	2117.8
50°	1707.9	1735.5	1842.9	1945.8	1995.3
52.5°	1576.2	1602.8	1712.5	1817.4	1868.5
55°	1439.9	1471.1	1578.5	1677.8	1713.5
57.5°	1302.6	1338.4	1442.2	1524.2	1555.3
60°	1166.4	1202.1	1299.1	1363.6	1386.9
62.5°	1028.8	1065.8	1151.3	1190.6	1195.2
65°	889.2	930.8	997.7	998.9	1003.5
67.5°	756.5	790.9	839.4	825.6	818.7
70°	614.3	652.3	672.0	644.4	628.1
72.5°	488.5	516.1	512.7	472.2	452.8
75°	365.0	386.9	368.3	316.5	296.8
77.5°	252.9	271.3	234.3	185.8	166.4
80°	159.3	167.4	127.1	90.1	76.3
82.5°	85.5	84.2	54.4	44.9	41.6
85°	37.0	33.4	24.2	21.9	19.7
87.5°	12.8	11.5	9.2	8.2	6.9
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	16.20	17.78	16.56	18.10	18.41	17.16	18.74	17.53	19.06	19.37
	3H	17.62	19.04	18.00	19.37	19.73	18.35	19.77	18.73	20.10	20.46
	4H	18.01	19.35	18.41	19.69	20.07	18.57	19.90	18.96	20.25	20.62
	6H	18.19	19.42	18.60	19.78	20.18	18.58	19.81	18.99	20.18	20.57
	8H	18.20	19.37	18.63	19.76	20.16	18.56	19.73	18.99	20.12	20.52
	12H	18.19	19.31	18.62	19.70	20.12	18.53	19.66	18.96	20.04	20.47
4H	2H	16.86	18.19	17.26	18.54	18.92	17.63	18.97	18.03	19.32	19.69
	3H	18.44	19.54	18.85	19.94	20.34	18.98	20.09	19.39	20.49	20.89
	4H	18.91	19.91	19.35	20.32	20.76	19.25	20.24	19.68	20.66	21.10
	6H	19.15	20.02	19.61	20.46	20.92	19.30	20.16	19.76	20.61	21.06
	8H	19.18	19.98	19.64	20.42	20.89	19.28	20.08	19.74	20.53	20.99
	12H	19.18	19.89	19.66	20.37	20.84	19.26	19.98	19.74	20.45	20.92
8H	4H	19.05	19.85	19.51	20.30	20.76	19.37	20.17	19.83	20.61	21.08
	6H	19.33	19.99	19.82	20.48	20.95	19.43	20.09	19.92	20.58	21.05
	8H	19.36	19.96	19.88	20.46	20.95	19.40	19.99	19.92	20.50	20.99
	12H	19.38	19.90	19.89	20.39	20.95	19.39	19.91	19.90	20.40	20.96
12H	4H	19.03	19.75	19.51	20.23	20.70	19.36	20.07	19.84	20.55	21.02
	6H	19.30	19.89	19.81	20.40	20.88	19.40	20.00	19.92	20.50	20.99
	8H	19.36	19.88	19.87	20.37	20.94	19.40	19.92	19.91	20.42	20.98

END OF REPORT