

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: P1499191

Luminaire Tested: MAE-G-4-120-2HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499191
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

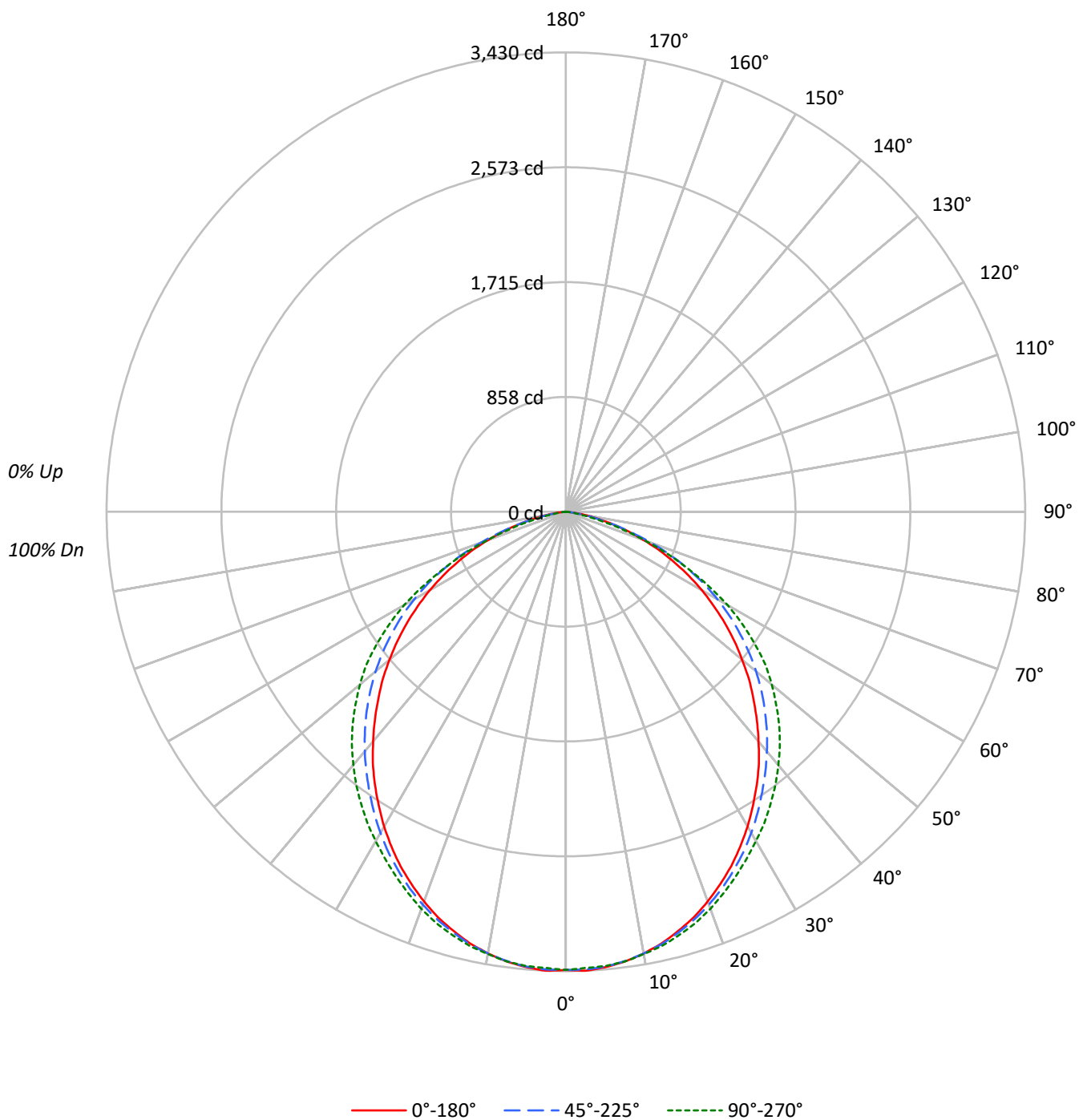
Lumens per Lamp: N/A
Luminaire Lumens: 8635.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4603	4603	4603
5°	4611	4603	4598
10°	4575	4575	4582
15°	4514	4530	4558
20°	4434	4471	4517
25°	4335	4392	4458
30°	4216	4302	4411
35°	4083	4198	4377
40°	3932	4103	4335
45°	3771	4000	4288
50°	3596	3881	4201
55°	3398	3725	4043
60°	3157	3517	3754
65°	2848	3195	3214
70°	2431	2659	2485
75°	1908	1926	1552
80°	1241	991	595
85°	574	377	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	3.7
10°-20°	916.4	10.6
20°-30°	1361.3	15.8
30°-40°	1603.4	18.6
40°-50°	1624.4	18.8
50°-60°	1413.9	16.4
60°-70°	963.4	11.2
70°-80°	385.1	4.5
80°-90°	44.1	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°	2600.7	30.1
0°-40°	4204.1	48.7
0°-60°	7242.4	83.9
0°-90°	8635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3421	3421	3421	3421	3421	
5°	3414	3394	3408	3404	3405	324
15°	3241	3227	3252	3264	3272	913
25°	2920	2921	2959	2983	3003	1344
35°	2486	2498	2556	2623	2665	1554
45°	1982	2006	2102	2201	2253	1529
55°	1448	1480	1588	1688	1724	1294
65°	894	936	1004	1005	1010	886
75°	367	389	370	318	299	395
85°	37	34	24	22	20	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3420.7	3420.7	3420.7	3420.7	3420.7
2.5°	3430.2	3408.2	3420.7	3418.4	3409.2
5°	3413.8	3394.0	3408.2	3403.5	3404.6
7.5°	3387.1	3368.6	3383.8	3382.5	3386.1
10°	3348.9	3330.4	3348.9	3349.9	3353.5
12.5°	3301.1	3284.9	3307.0	3311.6	3319.9
15°	3240.8	3226.9	3252.3	3264.1	3272.1
17.5°	3175.8	3166.6	3192.0	3207.1	3220.0
20°	3096.7	3092.1	3122.4	3137.3	3154.8
22.5°	3010.7	3008.4	3044.6	3063.1	3080.6
25°	2920.1	2921.4	2958.6	2983.0	3002.8
27.5°	2820.2	2822.6	2868.0	2897.0	2921.4
30°	2713.4	2719.3	2769.2	2808.7	2839.0
32.5°	2600.7	2611.3	2664.7	2719.3	2757.6
35°	2485.7	2497.5	2555.5	2622.8	2664.7
37.5°	2367.4	2380.2	2447.5	2526.5	2570.7
40°	2238.5	2258.0	2336.0	2423.1	2468.3
42.5°	2111.7	2133.7	2221.0	2316.3	2365.1
45°	1981.7	2006.1	2102.4	2201.3	2253.4
47.5°	1856.2	1877.0	1980.5	2083.9	2130.4
50°	1718.1	1745.8	1853.9	1957.4	2007.2
52.5°	1585.6	1612.3	1722.7	1828.2	1879.6
55°	1448.5	1479.8	1587.9	1687.8	1723.7
57.5°	1310.4	1346.3	1450.8	1533.2	1564.5
60°	1173.3	1209.2	1306.8	1371.7	1395.1
62.5°	1034.9	1072.1	1158.1	1197.7	1202.3
65°	894.5	936.3	1003.6	1004.9	1009.5
67.5°	761.0	795.6	844.4	830.5	823.6
70°	618.0	656.2	676.0	648.3	631.8
72.5°	491.4	519.1	515.8	475.0	455.4
75°	367.1	389.2	370.5	318.4	298.6
77.5°	254.4	272.9	235.7	186.9	167.4
80°	160.2	168.4	127.9	90.6	76.8
82.5°	86.0	84.7	54.7	45.2	41.8
85°	37.2	33.6	24.4	22.1	19.8
87.5°	12.8	11.6	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	16.22	17.80	16.59	18.12	18.43	17.18	18.76	17.55	19.08	19.39
	3H	17.64	19.06	18.02	19.39	19.75	18.37	19.79	18.75	20.12	20.48
	4H	18.03	19.37	18.43	19.72	20.09	18.59	19.92	18.98	20.27	20.64
	6H	18.21	19.44	18.62	19.80	20.20	18.60	19.83	19.02	20.20	20.59
	8H	18.22	19.39	18.65	19.78	20.18	18.58	19.75	19.01	20.14	20.54
	12H	18.21	19.33	18.64	19.72	20.14	18.56	19.68	18.98	20.06	20.49
4H	2H	16.88	18.21	17.28	18.56	18.94	17.65	18.99	18.05	19.34	19.71
	3H	18.46	19.56	18.87	19.96	20.36	19.00	20.11	19.41	20.51	20.91
	4H	18.93	19.93	19.37	20.34	20.78	19.27	20.27	19.71	20.68	21.12
	6H	19.17	20.04	19.63	20.48	20.94	19.32	20.18	19.78	20.63	21.09
	8H	19.20	20.00	19.66	20.44	20.91	19.30	20.10	19.76	20.55	21.01
	12H	19.20	19.91	19.68	20.39	20.86	19.28	20.00	19.76	20.47	20.94
8H	4H	19.07	19.87	19.53	20.32	20.78	19.39	20.19	19.85	20.63	21.10
	6H	19.35	20.01	19.84	20.50	20.97	19.45	20.11	19.94	20.60	21.07
	8H	19.38	19.98	19.90	20.48	20.97	19.42	20.01	19.94	20.52	21.01
	12H	19.40	19.92	19.91	20.41	20.97	19.41	19.93	19.92	20.42	20.98
12H	4H	19.05	19.77	19.53	20.25	20.72	19.38	20.09	19.86	20.57	21.04
	6H	19.32	19.91	19.83	20.42	20.91	19.42	20.02	19.94	20.52	21.01
	8H	19.38	19.90	19.89	20.39	20.96	19.42	19.94	19.93	20.44	21.00