

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: P1498960

Luminaire Tested: MAE-G-4-120-1HI-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

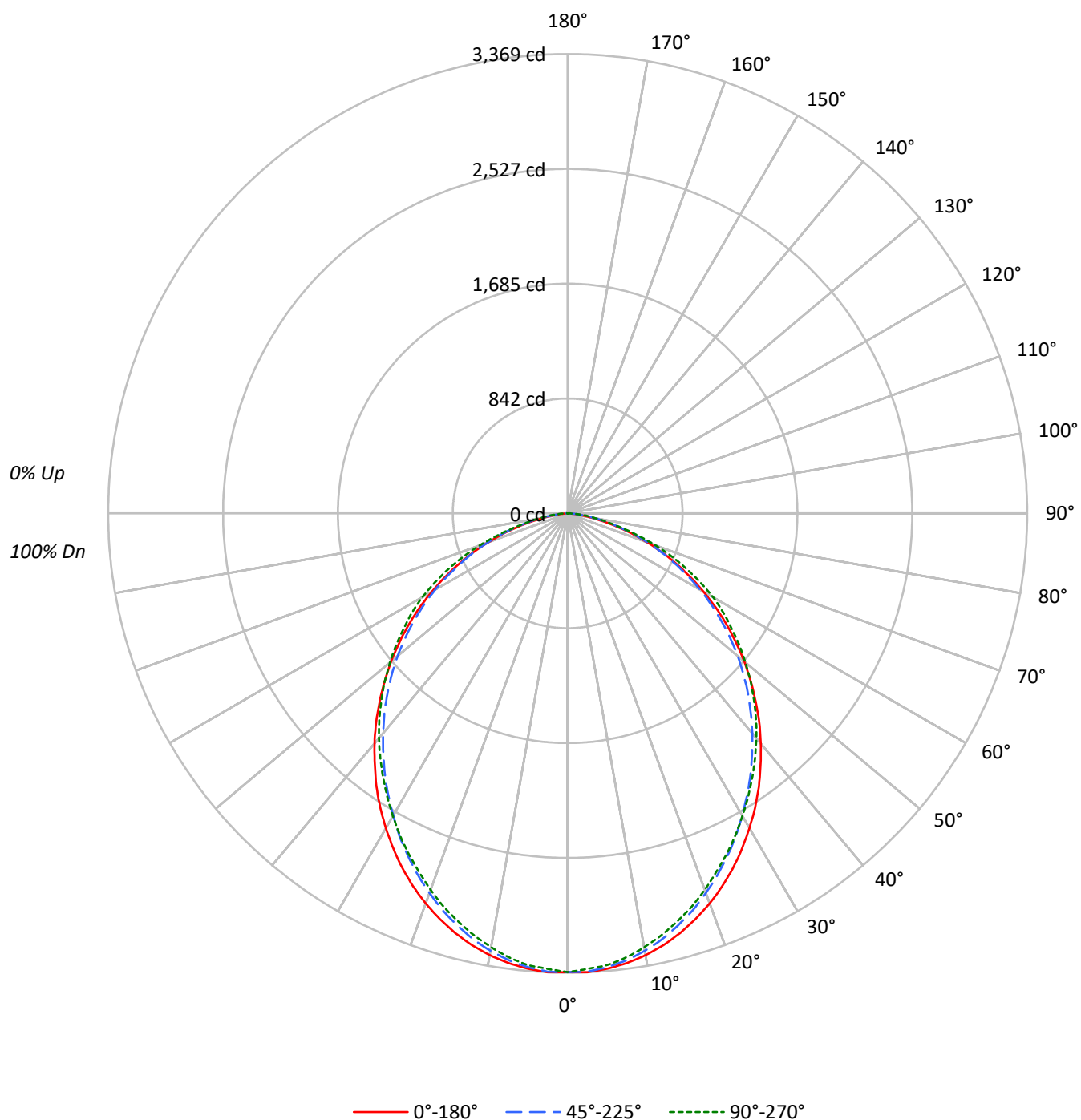
Lumens per Lamp: N/A
Luminaire Lumens: 8089.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		66	61	56		64
5	78	65	56	50	75	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4527	4527	4527
5°	4529	4512	4493
10°	4495	4451	4415
15°	4438	4357	4316
20°	4358	4241	4207
25°	4259	4116	4093
30°	4141	3973	3982
35°	4015	3840	3878
40°	3871	3697	3781
45°	3709	3556	3672
50°	3538	3405	3559
55°	3339	3226	3435
60°	3095	3020	3319
65°	2812	2747	3060
70°	2437	2455	2688
75°	1941	2061	2147
80°	1337	1553	1646
85°	746	1158	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3709 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.9
10°-20°	882.5	10.9
20°-30°	1284.6	15.9
30°-40°	1481.4	18.3
40°-50°	1468.9	18.2
50°-60°	1259.4	15.6
60°-70°	885.3	10.9
70°-80°	422.1	5.2
80°-90°	88.7	1.1
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°	2483.1	30.7
0°-40°	3964.5	49.0
0°-60°	6692.9	82.7
0°-90°	8089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3365	3365	3365	3365	3365	
5°	3353	3350	3341	3319	3326	318
15°	3186	3170	3128	3093	3099	898
25°	2869	2832	2772	2746	2757	1320
35°	2444	2395	2338	2340	2361	1527
45°	1949	1906	1869	1904	1930	1504
55°	1424	1383	1375	1428	1464	1271
65°	883	852	863	931	961	874
75°	373	360	396	416	413	403
85°	48	58	75	90	96	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3364.8	3364.8	3364.8	3364.8	3364.8
2.5°	3368.8	3371.3	3364.8	3340.6	3344.1
5°	3353.0	3350.0	3340.8	3319.3	3326.5
7.5°	3326.0	3321.8	3305.4	3280.3	3285.2
10°	3290.2	3281.8	3257.8	3226.8	3231.4
12.5°	3243.9	3233.1	3199.6	3165.1	3170.4
15°	3185.9	3170.1	3128.0	3092.9	3098.8
17.5°	3119.1	3101.9	3051.4	3013.7	3024.9
20°	3043.5	3019.8	2962.2	2927.4	2937.9
22.5°	2960.5	2930.4	2870.7	2838.1	2847.4
25°	2869.1	2832.2	2772.2	2746.3	2757.2
27.5°	2770.4	2730.1	2669.5	2646.8	2662.4
30°	2665.2	2622.1	2557.5	2545.8	2562.7
32.5°	2557.5	2512.1	2448.8	2445.7	2462.5
35°	2444.5	2394.6	2337.6	2339.9	2360.7
37.5°	2323.3	2276.0	2220.1	2237.5	2257.4
40°	2203.7	2154.5	2105.1	2129.6	2152.6
42.5°	2079.3	2032.4	1988.6	2017.8	2044.6
45°	1949.4	1905.6	1869.0	1903.8	1929.8
47.5°	1819.3	1775.6	1748.7	1787.6	1817.4
50°	1690.2	1648.8	1626.7	1671.1	1700.1
52.5°	1555.2	1515.5	1503.4	1549.4	1584.8
55°	1423.6	1383.2	1375.3	1427.6	1464.2
57.5°	1288.0	1256.3	1250.3	1308.7	1353.2
60°	1150.1	1118.4	1122.4	1192.4	1233.2
62.5°	1015.8	984.5	990.7	1069.2	1096.8
65°	883.4	852.2	862.9	931.2	961.2
67.5°	753.1	723.8	745.6	808.6	827.7
70°	619.5	593.7	624.0	675.5	683.3
72.5°	494.7	472.5	510.3	543.6	543.5
75°	373.3	360.2	396.5	415.7	413.0
77.5°	266.9	259.9	291.8	302.6	300.6
80°	172.6	176.5	200.4	208.0	212.4
82.5°	100.4	108.6	126.9	146.2	150.7
85°	48.3	58.1	75.0	90.0	96.0
87.5°	16.8	23.3	31.1	34.4	33.5
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	16.03	17.61	16.39	17.92	18.24	16.33	17.92	16.70	18.23	18.54
	3H	17.47	18.89	17.84	19.22	19.58	17.94	19.36	18.31	19.69	20.05
	4H	17.89	19.23	18.29	19.58	19.95	18.40	19.74	18.80	20.09	20.47
	6H	18.10	19.34	18.52	19.71	20.10	18.66	19.90	19.07	20.26	20.65
	8H	18.14	19.32	18.56	19.71	20.11	18.73	19.91	19.16	20.30	20.70
	12H	18.14	19.27	18.57	19.65	20.08	18.78	19.91	19.21	20.29	20.72
4H	2H	16.55	17.89	16.95	18.24	18.62	16.81	18.14	17.20	18.49	18.87
	3H	18.18	19.29	18.59	19.69	20.09	18.61	19.72	19.02	20.12	20.52
	4H	18.68	19.69	19.12	20.10	20.54	19.19	20.19	19.62	20.60	21.04
	6H	18.98	19.85	19.43	20.29	20.75	19.54	20.41	19.99	20.85	21.31
	8H	19.03	19.85	19.49	20.29	20.76	19.64	20.46	20.10	20.90	21.37
	12H	19.05	19.78	19.53	20.26	20.73	19.72	20.45	20.21	20.93	21.40
8H	4H	18.90	19.72	19.36	20.16	20.63	19.36	20.17	19.82	20.62	21.08
	6H	19.26	19.93	19.76	20.42	20.90	19.78	20.46	20.28	20.95	21.42
	8H	19.34	19.95	19.86	20.46	20.94	19.93	20.54	20.45	21.05	21.53
	12H	19.39	19.93	19.90	20.42	20.98	20.07	20.60	20.58	21.09	21.66
12H	4H	18.91	19.64	19.39	20.12	20.59	19.35	20.08	19.84	20.56	21.03
	6H	19.28	19.88	19.79	20.39	20.88	19.78	20.39	20.30	20.90	21.39
	8H	19.40	19.93	19.91	20.42	20.99	19.98	20.51	20.49	21.00	21.57