

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: P1499178

Luminaire Tested: MAE-G-4-120-2HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499178
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

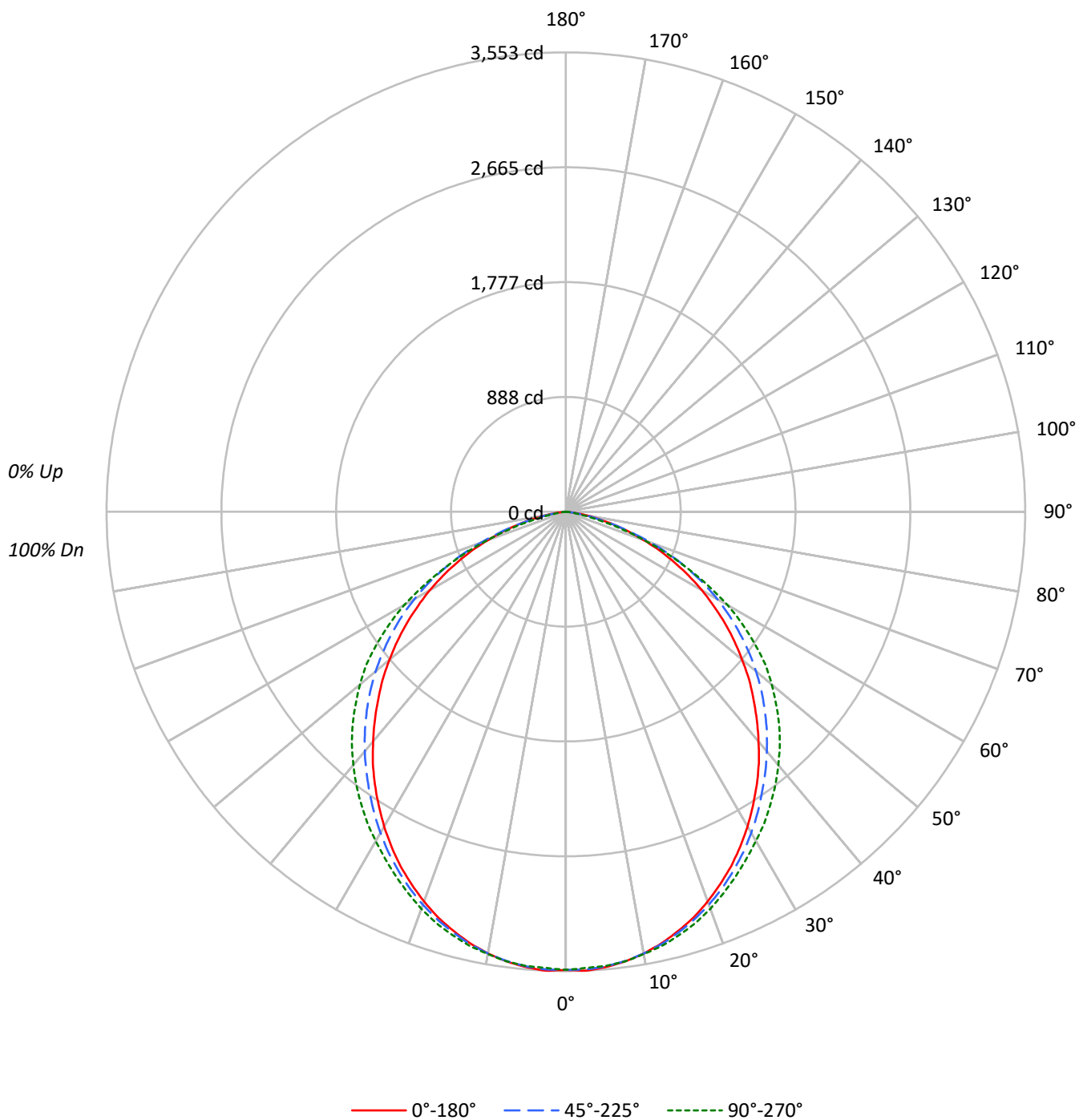
Lumens per Lamp: N/A
Luminaire Lumens: 8944.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4767	4767	4767
5°	4776	4768	4763
10°	4739	4739	4746
15°	4676	4692	4721
20°	4593	4631	4679
25°	4490	4550	4617
30°	4366	4456	4569
35°	4229	4348	4533
40°	4072	4250	4490
45°	3906	4144	4441
50°	3725	4019	4352
55°	3519	3858	4188
60°	3270	3642	3888
65°	2950	3309	3329
70°	2518	2755	2574
75°	1977	1995	1608
80°	1285	1026	616
85°	596	391	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	3.7
10°-20°	949.1	10.6
20°-30°	1410.0	15.8
30°-40°	1660.8	18.6
40°-50°	1682.5	18.8
50°-60°	1464.5	16.4
60°-70°	997.9	11.2
70°-80°	398.9	4.5
80°-90°	45.7	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°	2693.8	30.1
0°-40°	4354.5	48.7
0°-60°	7501.5	83.9
0°-90°	8944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3543	3543	3543	3543	3543	
5°	3536	3516	3530	3525	3526	335
15°	3357	3342	3369	3381	3389	946
25°	3025	3026	3064	3090	3110	1392
35°	2575	2587	2647	2717	2760	1609
45°	2053	2078	2178	2280	2334	1584
55°	1500	1533	1645	1748	1785	1340
65°	926	970	1040	1041	1046	918
75°	380	403	384	330	309	410
85°	39	35	25	23	20	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3543.2	3543.2	3543.2	3543.2	3543.2
2.5°	3553.0	3530.1	3543.2	3540.8	3531.2
5°	3536.0	3515.5	3530.1	3525.3	3526.4
7.5°	3508.3	3489.2	3504.9	3503.5	3507.3
10°	3468.7	3449.6	3468.7	3469.8	3473.5
12.5°	3419.2	3402.5	3425.4	3430.1	3438.7
15°	3356.7	3342.4	3368.7	3380.9	3389.2
17.5°	3289.5	3279.9	3306.2	3321.9	3335.2
20°	3207.6	3202.8	3234.2	3249.6	3267.7
22.5°	3118.5	3116.1	3153.6	3172.7	3190.8
25°	3024.6	3025.9	3064.5	3089.8	3110.2
27.5°	2921.2	2923.6	2970.6	3000.7	3025.9
30°	2810.5	2816.7	2868.2	2909.2	2940.6
32.5°	2693.8	2704.7	2760.0	2816.7	2856.3
35°	2574.7	2586.9	2647.0	2716.7	2760.0
37.5°	2452.1	2465.4	2535.0	2616.9	2662.7
40°	2318.6	2338.8	2419.6	2509.8	2556.6
42.5°	2187.2	2210.1	2300.5	2399.2	2449.7
45°	2052.7	2077.9	2177.6	2280.0	2334.0
47.5°	1922.6	1944.2	2051.3	2158.5	2206.6
50°	1779.6	1808.3	1920.2	2027.4	2079.0
52.5°	1642.3	1670.0	1784.3	1893.6	1946.8
55°	1500.3	1532.8	1644.7	1748.2	1785.4
57.5°	1357.3	1394.5	1502.7	1588.1	1620.5
60°	1215.3	1252.5	1353.5	1420.8	1445.0
62.5°	1071.9	1110.5	1199.6	1240.5	1245.3
65°	926.5	969.8	1039.5	1040.8	1045.6
67.5°	788.2	824.1	874.6	860.3	853.1
70°	640.1	679.7	700.2	671.5	654.4
72.5°	509.0	537.7	534.2	492.0	471.7
75°	380.3	403.1	383.7	329.7	309.3
77.5°	263.5	282.7	244.1	193.6	173.4
80°	165.9	174.4	132.4	93.9	79.5
82.5°	89.1	87.8	56.6	46.8	43.3
85°	38.6	34.8	25.3	22.9	20.5
87.5°	13.3	12.0	9.6	8.5	7.2
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	16.34	17.92	16.71	18.24	18.55	17.30	18.88	17.67	19.20	19.51
	3H	17.76	19.18	18.14	19.51	19.87	18.49	19.91	18.87	20.24	20.60
	4H	18.16	19.49	18.56	19.84	20.21	18.71	20.04	19.11	20.39	20.77
	6H	18.33	19.56	18.74	19.93	20.32	18.73	19.96	19.14	20.32	20.71
	8H	18.34	19.52	18.77	19.91	20.31	18.70	19.87	19.13	20.26	20.66
	12H	18.33	19.46	18.76	19.84	20.27	18.68	19.80	19.11	20.18	20.61
4H	2H	17.00	18.34	17.40	18.68	19.06	17.78	19.11	18.18	19.46	19.83
	3H	18.58	19.69	18.99	20.08	20.48	19.13	20.23	19.54	20.63	21.03
	4H	19.06	20.05	19.49	20.46	20.90	19.40	20.39	19.83	20.80	21.24
	6H	19.30	20.16	19.75	20.60	21.06	19.45	20.31	19.90	20.75	21.21
	8H	19.32	20.12	19.78	20.57	21.03	19.42	20.22	19.88	20.67	21.13
	12H	19.32	20.04	19.80	20.51	20.98	19.40	20.12	19.88	20.60	21.07
8H	4H	19.19	20.00	19.66	20.44	20.91	19.51	20.31	19.97	20.76	21.22
	6H	19.47	20.13	19.96	20.62	21.10	19.57	20.23	20.06	20.72	21.20
	8H	19.51	20.10	20.02	20.61	21.09	19.55	20.14	20.06	20.65	21.13
	12H	19.52	20.04	20.03	20.53	21.10	19.53	20.05	20.04	20.54	21.11
12H	4H	19.17	19.89	19.66	20.37	20.84	19.50	20.22	19.98	20.69	21.16
	6H	19.44	20.03	19.95	20.54	21.03	19.55	20.14	20.06	20.65	21.13
	8H	19.50	20.02	20.01	20.51	21.08	19.55	20.07	20.05	20.56	21.12