

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: P1498626

Luminaire Tested: MAE-G-2-120-3HI-HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

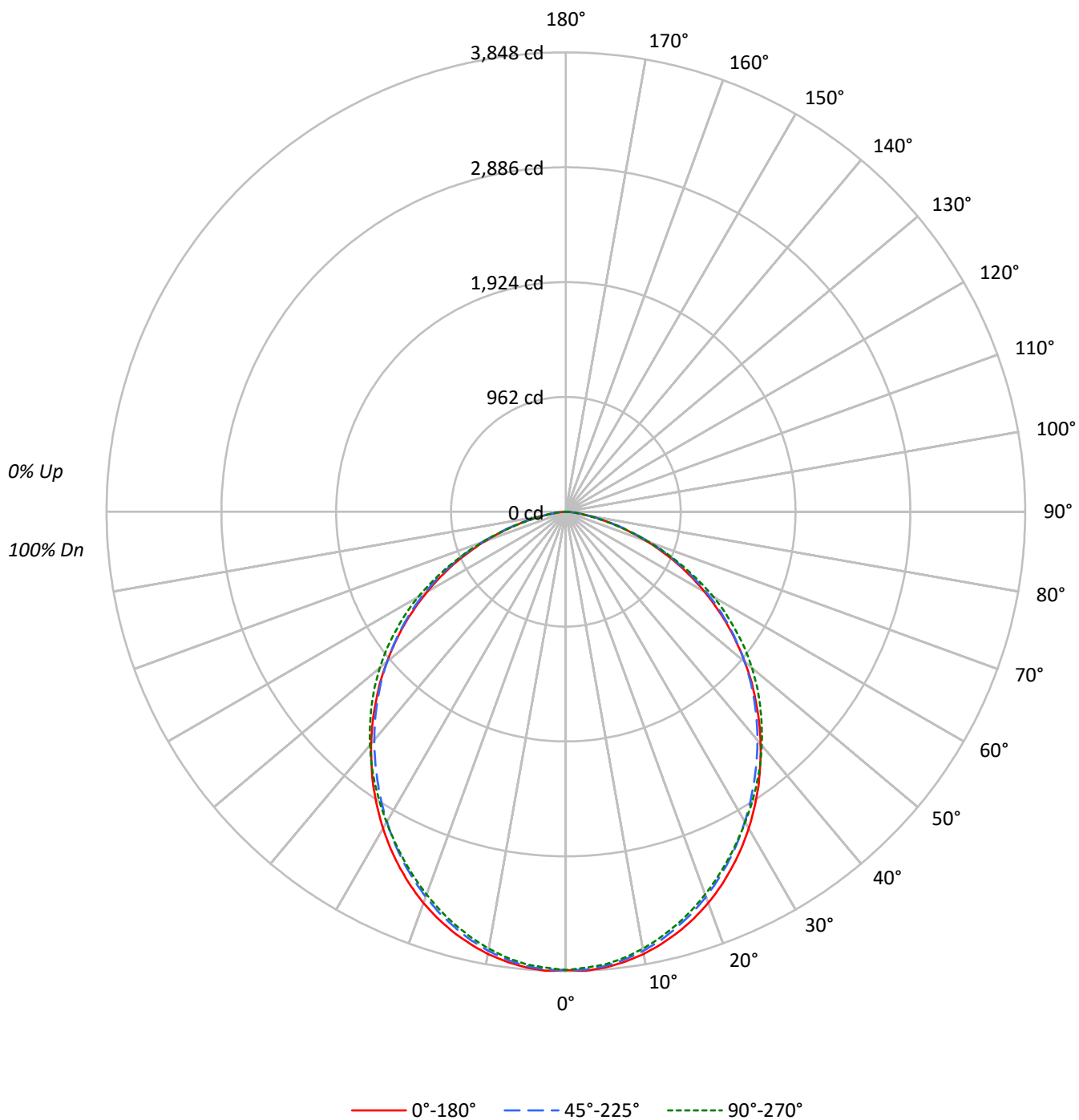
Lumens per Lamp: N/A
Luminaire Lumens: 9435.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10331	10331	10331
5°	10349	10316	10280
10°	10277	10206	10153
15°	10153	10037	9977
20°	9987	9830	9770
25°	9769	9589	9544
30°	9519	9317	9334
35°	9236	9040	9156
40°	8916	8770	8968
45°	8568	8495	8761
50°	8188	8184	8518
55°	7759	7825	8167
60°	7228	7366	7703
65°	6567	6748	6904
70°	5659	5872	5841
75°	4498	4679	4398
80°	3031	3090	2903
85°	1559	1958	2396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	3.8
10°-20°	1015.0	10.8
20°-30°	1489.8	15.8
30°-40°	1733.6	18.4
40°-50°	1736.5	18.4
50°-60°	1500.1	15.9
60°-70°	1044.7	11.1
70°-80°	471.1	5.0
80°-90°	82.6	0.9
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°	2866.3	30.4
0°-40°	4599.9	48.8
0°-60°	7836.6	83.1
0°-90°	9435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3839	3839	3839	3839	3839	
5°	3831	3815	3819	3800	3806	363
15°	3644	3621	3603	3576	3581	1027
25°	3290	3260	3230	3202	3214	1515
35°	2812	2774	2752	2761	2787	1757
45°	2252	2224	2232	2274	2302	1737
55°	1654	1633	1668	1722	1741	1476
65°	1031	1026	1060	1080	1084	1019
75°	433	435	450	435	423	465
85°	50	55	63	74	78	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3839.0	3839.0	3839.0	3839.0	3839.0
2.5°	3848.5	3833.1	3839.0	3824.8	3822.3
5°	3831.2	3815.1	3818.8	3800.5	3805.7
7.5°	3801.5	3784.3	3783.2	3763.1	3767.8
10°	3761.2	3740.8	3735.2	3712.1	3715.6
12.5°	3707.6	3686.3	3675.1	3648.5	3654.5
15°	3644.5	3620.8	3602.6	3576.1	3581.4
17.5°	3571.4	3545.2	3523.0	3492.3	3501.2
20°	3487.6	3459.1	3432.7	3400.2	3411.7
22.5°	3393.6	3363.5	3333.4	3304.0	3315.4
25°	3290.2	3259.5	3229.5	3202.5	3214.4
27.5°	3181.4	3147.2	3116.7	3096.6	3109.9
30°	3063.6	3028.0	2998.4	2984.9	3004.0
32.5°	2939.2	2903.9	2877.0	2875.1	2897.0
35°	2811.5	2774.2	2751.7	2761.3	2787.1
37.5°	2674.2	2642.4	2625.6	2646.9	2673.0
40°	2538.0	2504.9	2496.6	2525.5	2553.0
42.5°	2397.2	2367.7	2365.8	2403.6	2429.2
45°	2251.5	2223.7	2232.1	2274.0	2302.1
47.5°	2108.1	2079.8	2095.9	2142.1	2172.5
50°	1955.9	1932.4	1954.9	2007.0	2034.6
52.5°	1804.4	1781.9	1812.3	1867.4	1894.2
55°	1653.9	1633.3	1667.8	1721.5	1740.7
57.5°	1498.1	1485.4	1521.4	1568.7	1589.0
60°	1343.0	1331.8	1368.7	1412.9	1431.3
62.5°	1187.7	1180.4	1215.8	1252.0	1258.5
65°	1031.4	1026.4	1059.8	1080.1	1084.2
67.5°	873.4	872.9	904.0	915.2	915.1
70°	719.2	717.0	746.3	750.2	742.4
72.5°	569.4	571.9	591.6	588.5	575.8
75°	432.6	435.3	450.0	434.8	423.0
77.5°	305.5	308.0	315.4	298.7	291.4
80°	195.6	201.5	199.4	192.2	187.3
82.5°	109.4	115.8	113.9	123.3	127.4
85°	50.5	54.6	63.4	73.5	77.6
87.5°	17.2	20.8	26.1	27.9	26.1
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	19.04	20.63	19.41	20.94	21.26	19.43	21.02	19.80	21.33	21.64
	3H	20.49	21.92	20.87	22.24	22.61	20.85	22.27	21.23	22.60	22.96
	4H	20.91	22.25	21.31	22.60	22.97	21.22	22.56	21.62	22.91	23.29
	6H	21.11	22.35	21.53	22.72	23.11	21.38	22.62	21.80	22.99	23.38
	8H	21.14	22.32	21.56	22.71	23.11	21.41	22.59	21.84	22.98	23.38
	12H	21.14	22.27	21.57	22.65	23.08	21.43	22.55	21.85	22.94	23.36
4H	2H	19.63	20.97	20.03	21.31	21.69	19.94	21.28	20.34	21.63	22.00
	3H	21.25	22.36	21.66	22.76	23.16	21.55	22.66	21.96	23.06	23.46
	4H	21.76	22.76	22.19	23.17	23.61	22.00	23.00	22.44	23.42	23.86
	6H	22.03	22.90	22.49	23.34	23.80	22.23	23.10	22.69	23.55	24.00
	8H	22.07	22.88	22.53	23.33	23.79	22.28	23.09	22.74	23.54	24.00
	12H	22.08	22.81	22.56	23.29	23.76	22.31	23.04	22.79	23.52	23.99
8H	4H	21.94	22.75	22.40	23.20	23.66	22.17	22.98	22.63	23.42	23.89
	6H	22.27	22.94	22.76	23.43	23.90	22.45	23.12	22.94	23.61	24.08
	8H	22.33	22.93	22.85	23.44	23.93	22.52	23.12	23.03	23.63	24.11
	12H	22.37	22.90	22.87	23.39	23.95	22.58	23.11	23.09	23.60	24.17
12H	4H	21.94	22.66	22.42	23.14	23.61	22.16	22.89	22.64	23.37	23.84
	6H	22.26	22.86	22.77	23.37	23.86	22.44	23.04	22.95	23.55	24.03
	8H	22.36	22.89	22.87	23.38	23.94	22.54	23.07	23.05	23.56	24.13