

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: P1498647

Luminaire Tested: MAE-G-2-120-3HI-HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498647
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-50
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

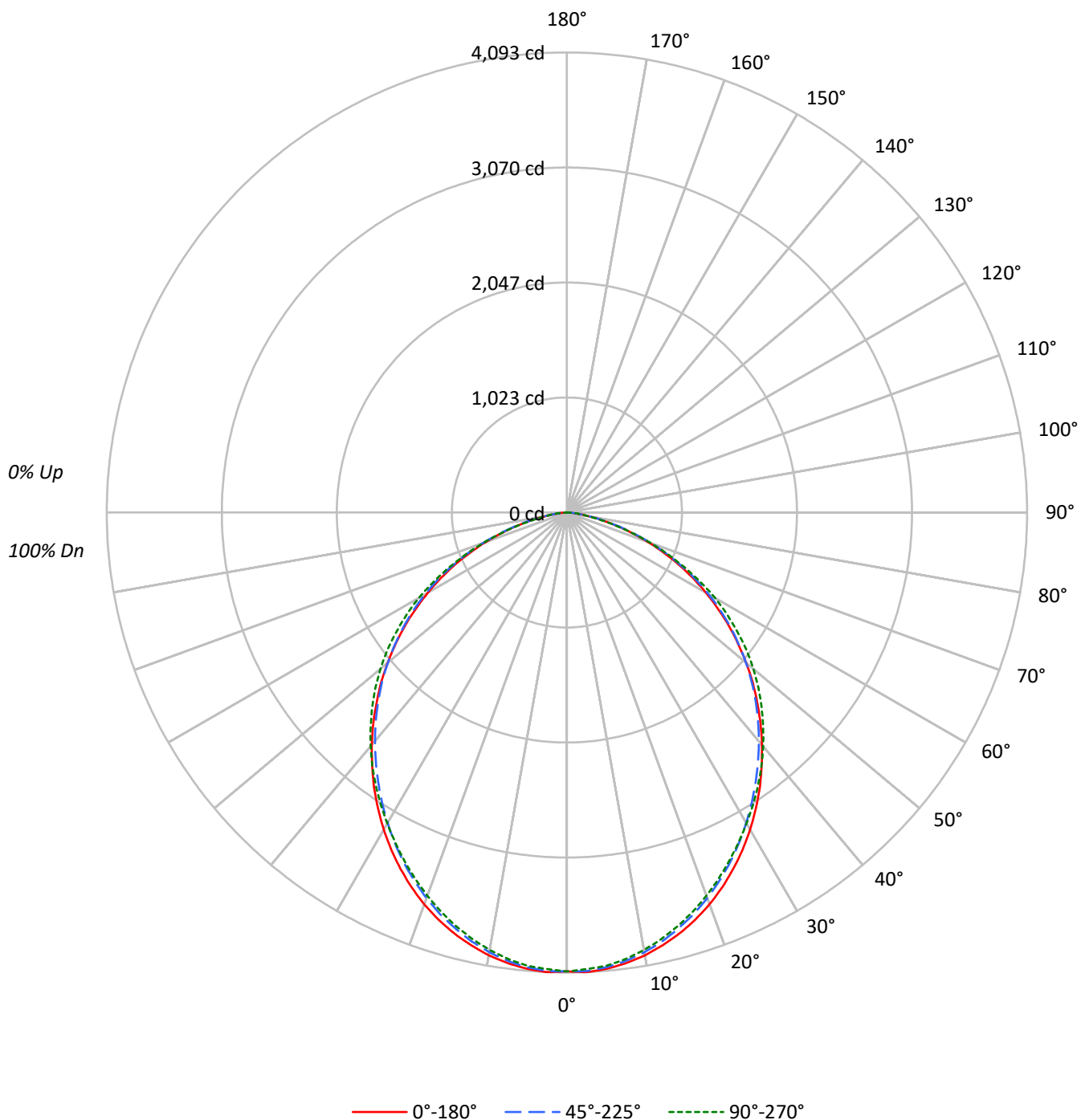
Lumens per Lamp: N/A
Luminaire Lumens: 10035.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	81	98	91	85	80	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		67	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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10988	10988	10988
5°	11007	10971	10934
10°	10931	10855	10799
15°	10799	10675	10612
20°	10623	10455	10391
25°	10390	10199	10151
30°	10125	9909	9928
35°	9823	9614	9738
40°	9483	9328	9538
45°	9113	9035	9318
50°	8709	8704	9059
55°	8253	8322	8686
60°	7688	7835	8193
65°	6986	7178	7342
70°	6019	6246	6213
75°	4785	4976	4677
80°	3223	3287	3087
85°	1661	2084	2550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	3.8
10°-20°	1079.6	10.8
20°-30°	1584.6	15.8
30°-40°	1843.8	18.4
40°-50°	1847.0	18.4
50°-60°	1595.5	15.9
60°-70°	1111.1	11.1
70°-80°	501.1	5.0
80°-90°	87.9	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°	3048.5	30.4
0°-40°	4892.4	48.8
0°-60°	8334.9	83.1
0°-90°	10035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4083	4083	4083	4083	4083	
5°	4075	4058	4062	4042	4048	387
15°	3876	3851	3832	3804	3809	1092
25°	3499	3467	3435	3406	3419	1611
35°	2990	2951	2927	2937	2964	1868
45°	2395	2365	2374	2419	2448	1848
55°	1759	1737	1774	1831	1851	1570
65°	1097	1092	1127	1149	1153	1084
75°	460	463	479	463	450	494
85°	54	58	68	78	83	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4083.2	4083.2	4083.2	4083.2	4083.2
2.5°	4093.2	4076.8	4083.2	4068.0	4065.4
5°	4074.9	4057.8	4061.6	4042.1	4047.8
7.5°	4043.3	4025.0	4023.8	4002.4	4007.4
10°	4000.4	3978.7	3972.7	3948.1	3951.9
12.5°	3943.4	3920.7	3908.8	3880.5	3886.9
15°	3876.2	3851.2	3831.7	3803.6	3809.2
17.5°	3798.6	3770.7	3747.1	3714.5	3723.9
20°	3709.4	3679.1	3651.0	3616.4	3628.7
22.5°	3609.4	3577.4	3545.4	3514.1	3526.2
25°	3499.4	3466.8	3434.9	3406.1	3418.8
27.5°	3383.7	3347.3	3314.9	3293.5	3307.6
30°	3258.4	3220.6	3189.0	3174.7	3195.0
32.5°	3126.2	3088.6	3060.0	3057.8	3081.3
35°	2990.3	2950.7	2926.7	2937.0	2964.3
37.5°	2844.3	2810.4	2792.5	2815.1	2843.0
40°	2699.5	2664.3	2655.4	2686.0	2715.3
42.5°	2549.7	2518.2	2516.3	2556.5	2583.7
45°	2394.6	2365.2	2374.0	2418.6	2448.5
47.5°	2242.2	2212.1	2229.2	2278.3	2310.6
50°	2080.3	2055.3	2079.2	2134.6	2163.9
52.5°	1919.2	1895.2	1927.5	1986.1	2014.6
55°	1759.1	1737.1	1773.8	1831.0	1851.4
57.5°	1593.3	1579.9	1618.1	1668.5	1690.0
60°	1428.4	1416.6	1455.7	1502.7	1522.3
62.5°	1263.3	1255.4	1293.1	1331.6	1338.6
65°	1097.1	1091.6	1127.3	1148.7	1153.1
67.5°	928.9	928.5	961.5	973.3	973.2
70°	765.0	762.7	793.8	797.9	789.7
72.5°	605.6	608.3	629.2	625.9	612.4
75°	460.2	462.9	478.6	462.6	449.8
77.5°	324.9	327.6	335.5	317.7	310.0
80°	208.0	214.4	212.1	204.4	199.2
82.5°	116.4	123.1	121.2	131.1	135.6
85°	53.8	58.1	67.5	78.2	82.6
87.5°	18.3	22.0	27.8	29.7	27.7
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	19.26	20.84	19.62	21.16	21.47	19.65	21.23	20.01	21.54	21.86
	3H	20.71	22.13	21.09	22.46	22.82	21.06	22.49	21.44	22.82	23.18
	4H	21.13	22.46	21.53	22.81	23.19	21.44	22.77	21.84	23.12	23.50
	6H	21.33	22.57	21.74	22.93	23.32	21.60	22.83	22.01	23.20	23.59
	8H	21.35	22.53	21.78	22.92	23.32	21.63	22.80	22.05	23.19	23.59
	12H	21.35	22.48	21.78	22.86	23.29	21.64	22.77	22.07	23.15	23.58
4H	2H	19.84	21.18	20.24	21.53	21.91	20.16	21.49	20.56	21.84	22.22
	3H	21.47	22.58	21.88	22.98	23.38	21.76	22.87	22.17	23.27	23.67
	4H	21.97	22.97	22.40	23.39	23.82	22.22	23.22	22.65	23.63	24.07
	6H	22.25	23.12	22.70	23.56	24.02	22.45	23.32	22.90	23.76	24.22
	8H	22.29	23.10	22.75	23.54	24.01	22.49	23.31	22.96	23.75	24.22
	12H	22.30	23.02	22.78	23.50	23.97	22.53	23.25	23.01	23.73	24.20
8H	4H	22.15	22.97	22.62	23.41	23.88	22.38	23.19	22.84	23.64	24.10
	6H	22.48	23.15	22.98	23.64	24.12	22.66	23.33	23.15	23.82	24.30
	8H	22.55	23.15	23.06	23.66	24.14	22.73	23.33	23.24	23.84	24.33
	12H	22.58	23.11	23.09	23.60	24.16	22.80	23.33	23.31	23.82	24.38
12H	4H	22.15	22.88	22.63	23.35	23.82	22.38	23.10	22.86	23.58	24.05
	6H	22.48	23.08	22.99	23.59	24.07	22.65	23.25	23.16	23.76	24.25
	8H	22.57	23.10	23.08	23.60	24.16	22.76	23.29	23.27	23.78	24.34