

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: P1498635

Luminaire Tested: MAE-G-2-120-3HI-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498635
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-35
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

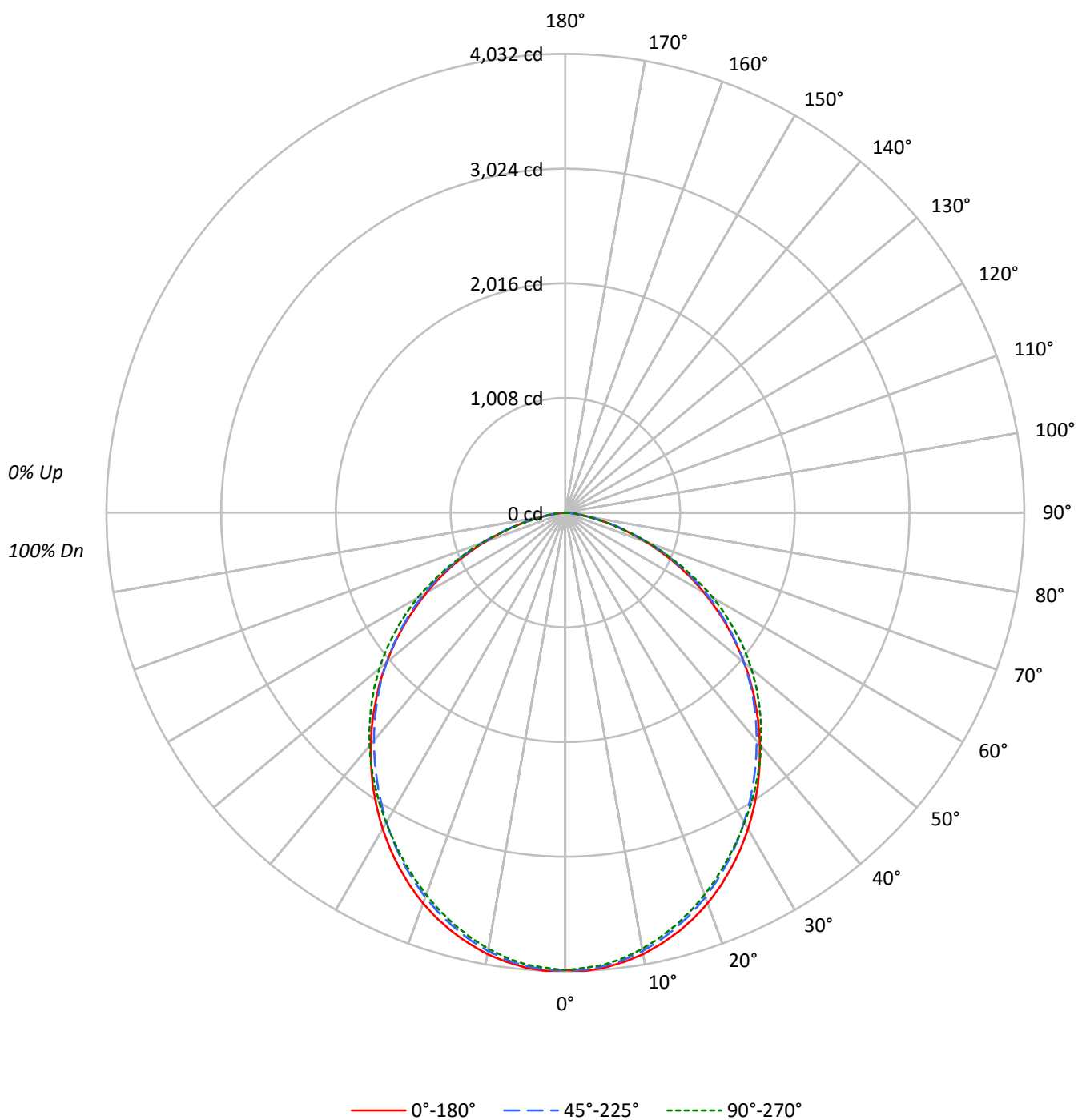
Lumens per Lamp: N/A
Luminaire Lumens: 9885.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	10823	10823	10823
5°	10843	10807	10770
10°	10768	10693	10637
15°	10637	10515	10453
20°	10464	10299	10236
25°	10235	10046	9999
30°	9973	9761	9780
35°	9677	9471	9592
40°	9341	9188	9396
45°	8977	8899	9179
50°	8579	8574	8924
55°	8130	8198	8557
60°	7573	7717	8070
65°	6881	7070	7233
70°	5928	6152	6120
75°	4712	4901	4608
80°	3175	3239	3040
85°	1633	2053	2513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	3.8
10°-20°	1063.5	10.8
20°-30°	1560.9	15.8
30°-40°	1816.3	18.4
40°-50°	1819.4	18.4
50°-60°	1571.7	15.9
60°-70°	1094.5	11.1
70°-80°	493.6	5.0
80°-90°	86.6	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°	3003.0	30.4
0°-40°	4819.3	48.8
0°-60°	8210.3	83.1
0°-90°	9885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4022	4022	4022	4022	4022	
5°	4014	3997	4001	3982	3987	381
15°	3818	3794	3774	3747	3752	1076
25°	3447	3415	3384	3355	3368	1587
35°	2946	2907	2883	2893	2920	1840
45°	2359	2330	2338	2382	2412	1820
55°	1733	1711	1747	1804	1824	1547
65°	1081	1075	1110	1132	1136	1068
75°	453	456	471	456	443	487
85°	53	57	66	77	81	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4022.1	4022.1	4022.1	4022.1	4022.1
2.5°	4032.0	4015.8	4022.1	4007.2	4004.7
5°	4014.0	3997.2	4000.9	3981.7	3987.2
7.5°	3982.8	3964.8	3963.7	3942.6	3947.5
10°	3940.6	3919.2	3913.3	3889.1	3892.9
12.5°	3884.4	3862.2	3850.3	3822.6	3828.8
15°	3818.3	3793.6	3774.5	3746.7	3752.2
17.5°	3741.8	3714.3	3691.1	3658.9	3668.2
20°	3654.0	3624.1	3596.5	3562.4	3574.4
22.5°	3555.5	3524.0	3492.4	3461.6	3473.4
25°	3447.1	3414.9	3383.6	3355.2	3367.6
27.5°	3333.2	3297.2	3265.4	3244.3	3258.1
30°	3209.7	3172.5	3141.3	3127.3	3147.3
32.5°	3079.5	3042.4	3014.3	3012.1	3035.2
35°	2945.7	2906.6	2883.0	2893.0	2920.0
37.5°	2801.8	2768.4	2750.8	2773.1	2800.4
40°	2659.1	2624.4	2615.6	2645.9	2674.8
42.5°	2511.6	2480.5	2478.7	2518.2	2545.1
45°	2358.8	2329.8	2338.5	2382.5	2411.9
47.5°	2208.6	2179.1	2195.8	2244.3	2276.0
50°	2049.2	2024.6	2048.1	2102.7	2131.6
52.5°	1890.5	1866.9	1898.7	1956.4	1984.6
55°	1732.8	1711.2	1747.4	1803.6	1823.8
57.5°	1569.5	1556.2	1593.9	1643.5	1664.8
60°	1407.1	1395.3	1433.9	1480.2	1499.5
62.5°	1244.3	1236.7	1273.8	1311.6	1318.5
65°	1080.6	1075.3	1110.4	1131.5	1135.9
67.5°	915.0	914.6	947.1	958.8	958.8
70°	753.5	751.3	781.9	785.9	777.9
72.5°	596.6	599.3	619.8	616.5	603.3
75°	453.2	456.0	471.4	455.7	443.2
77.5°	320.0	322.7	330.4	312.9	305.4
80°	204.9	211.2	209.0	201.4	196.2
82.5°	114.6	121.4	119.4	129.2	133.6
85°	52.9	57.2	66.5	77.0	81.4
87.5°	18.0	21.7	27.4	29.2	27.3
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	19.21	20.79	19.57	21.10	21.42	19.59	21.18	19.96	21.49	21.81
	3H	20.66	22.08	21.03	22.41	22.77	21.01	22.44	21.39	22.76	23.12
	4H	21.07	22.41	21.47	22.76	23.14	21.38	22.72	21.78	23.07	23.45
	6H	21.28	22.51	21.69	22.88	23.27	21.55	22.78	21.96	23.15	23.54
	8H	21.30	22.48	21.73	22.87	23.27	21.57	22.75	22.00	23.14	23.54
	12H	21.30	22.43	21.73	22.81	23.24	21.59	22.72	22.02	23.10	23.53
4H	2H	19.79	21.13	20.19	21.48	21.85	20.10	21.44	20.50	21.79	22.17
	3H	21.41	22.53	21.82	22.92	23.32	21.71	22.82	22.12	23.22	23.62
	4H	21.92	22.92	22.35	23.33	23.77	22.17	23.17	22.60	23.58	24.02
	6H	22.19	23.06	22.65	23.51	23.96	22.40	23.27	22.85	23.71	24.17
	8H	22.23	23.05	22.70	23.49	23.96	22.44	23.25	22.90	23.70	24.16
	12H	22.25	22.97	22.73	23.45	23.92	22.47	23.20	22.96	23.68	24.15
8H	4H	22.10	22.91	22.56	23.36	23.82	22.33	23.14	22.79	23.58	24.05
	6H	22.43	23.10	22.93	23.59	24.07	22.61	23.28	23.10	23.77	24.24
	8H	22.50	23.10	23.01	23.60	24.09	22.68	23.28	23.19	23.79	24.28
	12H	22.53	23.06	23.04	23.55	24.11	22.74	23.27	23.25	23.77	24.33
12H	4H	22.10	22.82	22.58	23.30	23.77	22.32	23.05	22.81	23.53	24.00
	6H	22.42	23.03	22.94	23.53	24.02	22.60	23.20	23.11	23.71	24.20
	8H	22.52	23.05	23.03	23.54	24.11	22.71	23.24	23.21	23.73	24.29