

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: P1499118

Luminaire Tested: MAE-G-4-120-1STD-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499118
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-4-120-1STD-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

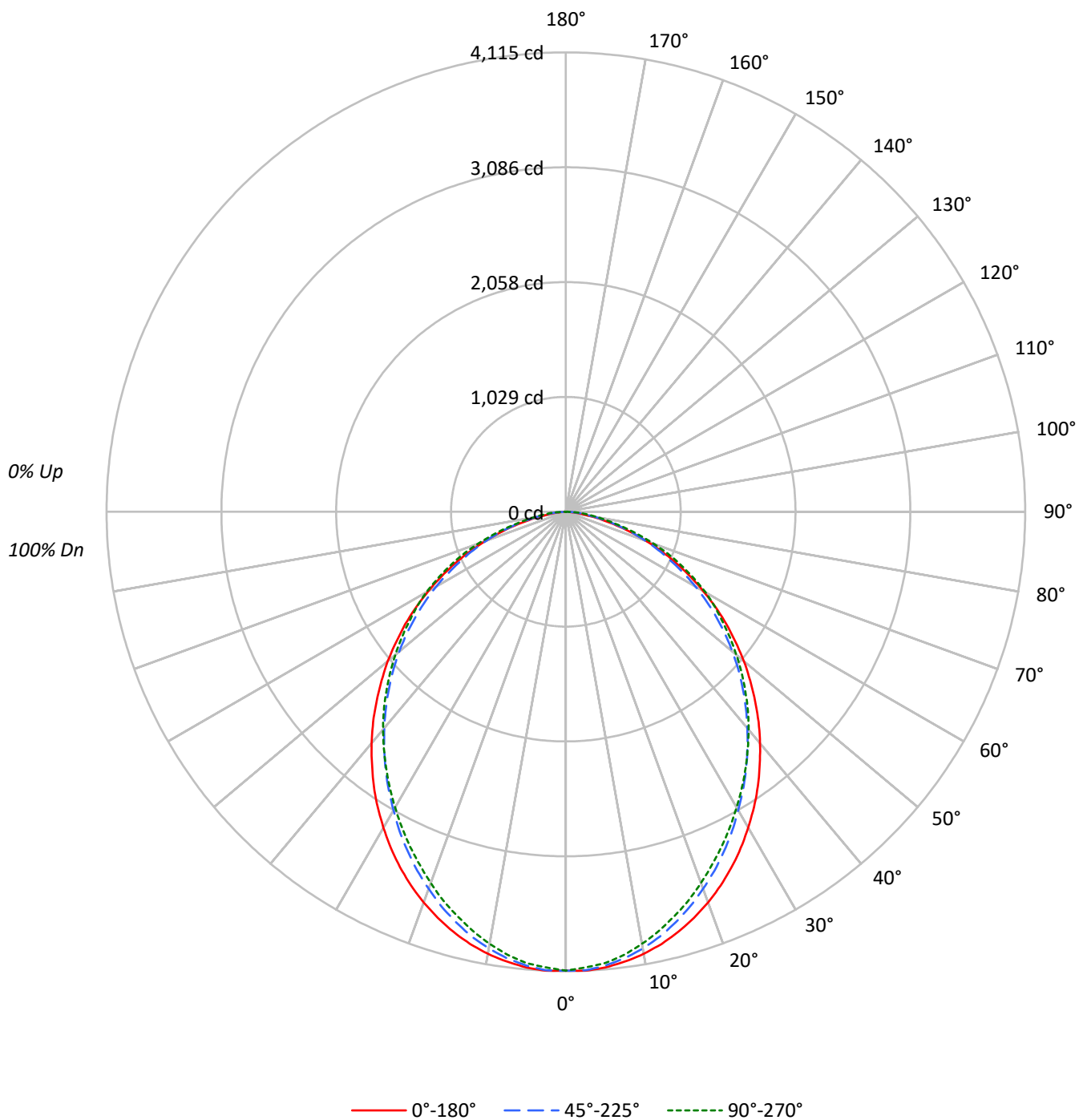
Lumens per Lamp: N/A
Luminaire Lumens: 9793.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5531	5531	5531
5°	5533	5511	5481
10°	5494	5428	5370
15°	5426	5301	5225
20°	5333	5146	5068
25°	5216	4980	4908
30°	5077	4797	4753
35°	4927	4624	4609
40°	4755	4444	4474
45°	4563	4265	4326
50°	4358	4077	4173
55°	4119	3860	4018
60°	3828	3610	3887
65°	3488	3296	3643
70°	3030	2981	3294
75°	2424	2570	2777
80°	1683	2032	2270
85°	943	1581	2084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	3.9
10°-20°	1073.3	11.0
20°-30°	1555.9	15.9
30°-40°	1787.1	18.2
40°-50°	1765.6	18.0
50°-60°	1509.7	15.4
60°-70°	1068.4	10.9
70°-80°	528.6	5.4
80°-90°	118.8	1.2
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°	3014.8	30.8
0°-40°	4801.9	49.0
0°-60°	8077.2	82.5
0°-90°	9793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4111	4111	4111	4111	4111	
5°	4097	4094	4080	4049	4058	389
15°	3895	3871	3806	3747	3751	1098
25°	3514	3456	3355	3300	3306	1617
35°	3000	2920	2815	2791	2806	1874
45°	2398	2323	2242	2255	2274	1849
55°	1756	1687	1645	1681	1713	1568
65°	1096	1041	1035	1111	1144	1084
75°	466	443	494	530	534	503
85°	61	75	102	125	135	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4110.6	4110.6	4110.6	4110.6	4110.6
2.5°	4115.2	4118.9	4110.6	4078.7	4085.0
5°	4096.7	4093.5	4080.2	4048.9	4058.2
7.5°	4064.2	4058.1	4034.2	3996.7	4002.6
10°	4021.2	4009.0	3972.9	3925.7	3930.2
12.5°	3965.2	3948.3	3897.2	3842.7	3847.0
15°	3895.4	3871.3	3805.6	3746.8	3750.7
17.5°	3815.1	3786.8	3706.7	3642.7	3652.4
20°	3724.4	3686.5	3593.8	3531.9	3539.3
22.5°	3624.0	3576.8	3478.8	3417.9	3422.5
25°	3513.6	3456.5	3354.6	3300.1	3305.9
27.5°	3394.7	3331.7	3225.5	3174.6	3184.7
30°	3267.7	3199.5	3087.5	3047.9	3059.0
32.5°	3137.1	3064.1	2953.1	2922.6	2933.6
35°	2999.7	2920.3	2814.9	2791.4	2805.9
37.5°	2852.8	2775.9	2671.1	2663.9	2677.0
40°	2707.0	2627.6	2529.9	2530.5	2547.2
42.5°	2555.3	2478.1	2387.4	2393.9	2413.8
45°	2397.8	2322.9	2241.6	2255.2	2273.7
47.5°	2239.1	2165.5	2096.1	2114.3	2137.4
50°	2081.8	2010.4	1947.8	1972.9	1993.8
52.5°	1915.9	1848.0	1799.0	1826.5	1855.4
55°	1756.1	1687.1	1645.3	1681.0	1712.7
57.5°	1590.4	1532.0	1495.0	1540.6	1581.6
60°	1422.4	1365.3	1341.7	1404.1	1444.4
62.5°	1257.5	1202.0	1186.2	1263.2	1294.3
65°	1095.5	1041.0	1035.3	1111.0	1144.4
67.5°	934.0	884.7	897.4	973.2	996.4
70°	770.3	726.0	757.7	823.6	837.2
72.5°	615.9	579.1	626.1	675.7	681.2
75°	466.3	442.8	494.4	530.3	534.1
77.5°	334.0	321.7	371.4	398.5	403.4
80°	217.2	221.8	262.2	284.5	293.0
82.5°	126.9	138.8	170.9	201.3	210.1
85°	61.1	75.4	102.4	125.3	135.0
87.5°	21.0	30.6	43.0	47.8	46.5
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	16.76	18.34	17.12	18.65	18.97	16.79	18.38	17.16	18.69	19.00
	3H	18.22	19.64	18.59	19.97	20.33	18.48	19.90	18.85	20.23	20.59
	4H	18.65	19.99	19.05	20.34	20.71	19.01	20.35	19.41	20.70	21.08
	6H	18.87	20.11	19.29	20.48	20.87	19.35	20.59	19.76	20.95	21.35
	8H	18.91	20.09	19.34	20.48	20.88	19.45	20.63	19.88	21.02	21.42
	12H	18.92	20.05	19.35	20.43	20.86	19.53	20.66	19.96	21.04	21.47
4H	2H	17.26	18.60	17.66	18.95	19.32	17.29	18.63	17.69	18.98	19.35
	3H	18.91	20.02	19.32	20.42	20.82	19.18	20.30	19.59	20.70	21.10
	4H	19.43	20.43	19.86	20.85	21.28	19.84	20.84	20.27	21.26	21.69
	6H	19.73	20.61	20.19	21.05	21.51	20.28	21.16	20.74	21.60	22.06
	8H	19.79	20.61	20.25	21.05	21.52	20.42	21.24	20.88	21.68	22.15
	12H	19.82	20.55	20.30	21.03	21.50	20.54	21.27	21.02	21.75	22.22
8H	4H	19.66	20.47	20.12	20.92	21.38	20.03	20.84	20.49	21.29	21.75
	6H	20.03	20.71	20.53	21.20	21.68	20.56	21.24	21.05	21.73	22.20
	8H	20.13	20.73	20.64	21.24	21.73	20.76	21.37	21.27	21.87	22.36
	12H	20.18	20.72	20.69	21.21	21.77	20.94	21.47	21.45	21.96	22.53
12H	4H	19.67	20.40	20.15	20.88	21.35	20.03	20.76	20.51	21.24	21.71
	6H	20.06	20.67	20.57	21.18	21.66	20.57	21.18	21.08	21.68	22.17
	8H	20.19	20.73	20.70	21.22	21.78	20.81	21.35	21.32	21.84	22.40

END OF REPORT