

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: P1498896

Luminaire Tested: MAE-G-4-120-1HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498896
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-4-120-1HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

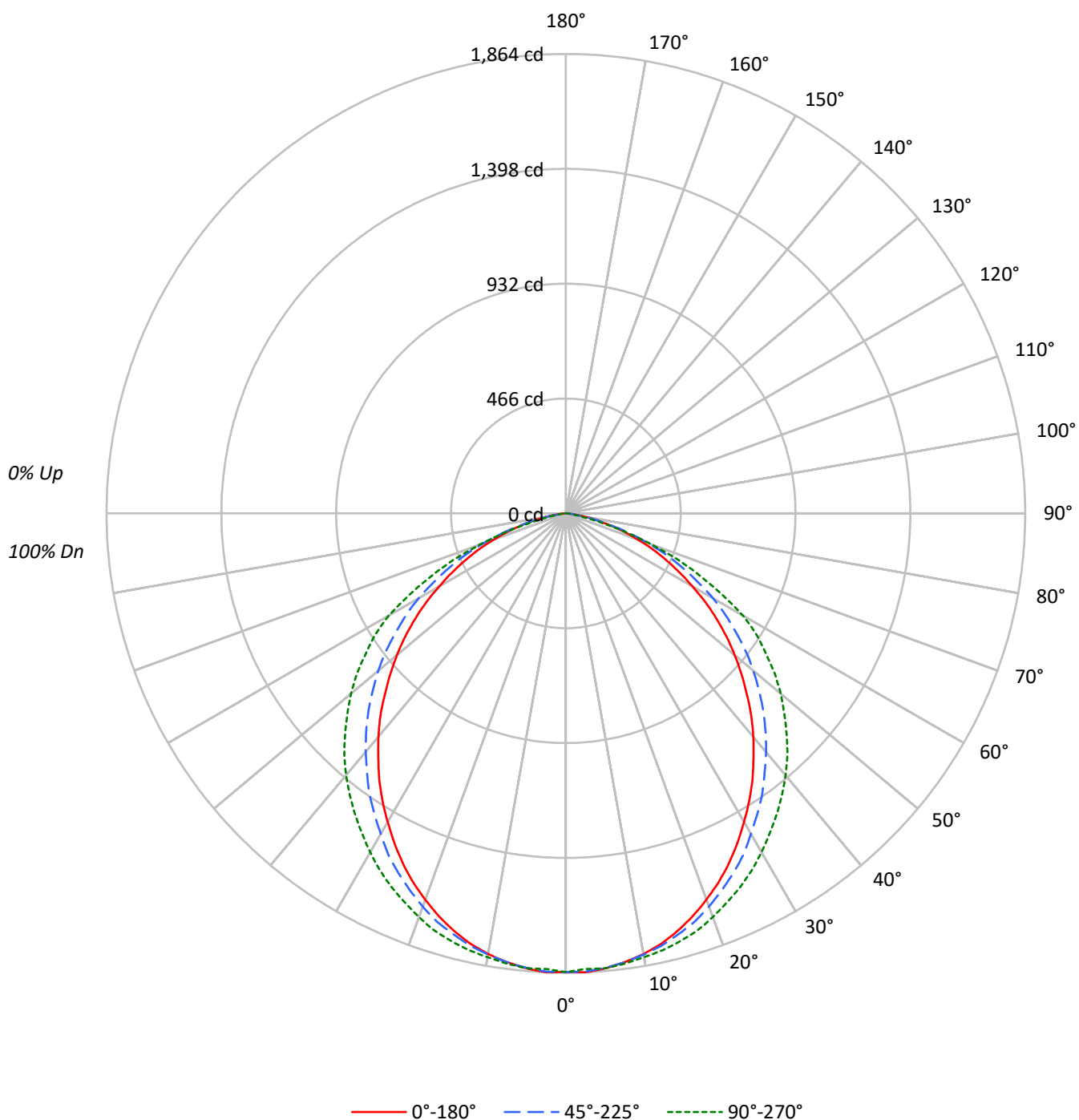
Lumens per Lamp: N/A
Luminaire Lumens: 4685.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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

TEST NUMBER: P1498896

CATALOG NUMBER: MAE-G-4-120-1HI-35-90

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65	60	55	53
5	78	65	57	50	76	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		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	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	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2504	2504	2504
5°	2503	2499	2503
10°	2480	2484	2499
15°	2443	2462	2503
20°	2388	2431	2496
25°	2325	2389	2484
30°	2246	2334	2467
35°	2168	2283	2450
40°	2079	2220	2436
45°	1977	2155	2410
50°	1872	2079	2382
55°	1752	1978	2324
60°	1600	1859	2234
65°	1432	1662	1918
70°	1222	1401	1464
75°	947	1016	821
80°	622	539	291
85°	330	249	165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2410 cd/sqm

TEST NUMBER: P1498896

CATALOG NUMBER: MAE-G-4-120-1HI-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.8
10°-20°	499.4	10.7
20°-30°	742.6	15.9
30°-40°	873.1	18.6
40°-50°	881.2	18.8
50°-60°	765.1	16.3
60°-70°	520.8	11.1
70°-80°	202.9	4.3
80°-90°	24.3	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°	1417.7	30.3
0°-40°	2290.8	48.9
0°-60°	3937.1	84.0
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1853	1850	1850	1850	1853	176
15°	1754	1756	1767	1786	1797	494
25°	1566	1574	1609	1649	1674	720
35°	1320	1336	1390	1454	1491	824
45°	1039	1066	1133	1221	1266	802
55°	747	771	843	940	991	667
65°	450	471	522	578	602	447
75°	182	193	196	177	158	198
85°	21	21	16	13	11	31
90°	0	0	0	0	0	

TEST NUMBER: P1498896

CATALOG NUMBER: MAE-G-4-120-1HI-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.9	1860.9	1860.9	1860.9	1860.9
2.5°	1863.6	1863.6	1860.9	1852.9	1850.2
5°	1852.9	1850.2	1850.2	1850.2	1852.9
7.5°	1836.8	1836.8	1836.8	1839.5	1842.2
10°	1815.4	1815.4	1818.1	1823.4	1828.8
12.5°	1788.6	1791.3	1796.7	1807.4	1815.4
15°	1753.8	1756.5	1767.2	1785.9	1796.7
17.5°	1713.7	1721.7	1737.7	1759.2	1775.2
20°	1668.1	1676.2	1697.6	1724.4	1743.1
22.5°	1619.9	1628.0	1654.7	1686.9	1708.3
25°	1566.4	1574.4	1609.2	1649.4	1673.5
27.5°	1507.5	1518.2	1561.0	1603.9	1633.3
30°	1445.9	1459.3	1502.1	1555.7	1587.8
32.5°	1384.3	1400.4	1445.9	1507.5	1539.6
35°	1320.0	1336.1	1389.7	1453.9	1491.4
37.5°	1250.4	1269.2	1325.4	1403.1	1440.5
40°	1183.5	1202.2	1263.8	1346.8	1387.0
42.5°	1113.9	1135.3	1199.6	1285.2	1330.8
45°	1038.9	1065.7	1132.6	1221.0	1266.5
47.5°	966.6	990.7	1063.0	1154.0	1202.2
50°	894.3	921.1	993.4	1087.1	1138.0
52.5°	822.0	846.1	921.1	1014.8	1068.4
55°	747.0	771.1	843.4	939.8	990.7
57.5°	672.1	701.5	768.5	862.2	918.4
60°	594.4	621.2	690.8	784.5	830.0
62.5°	522.1	546.2	605.1	693.5	714.9
65°	449.8	471.3	522.1	578.4	602.5
67.5°	382.9	399.0	444.5	482.0	492.7
70°	310.6	326.7	356.1	377.5	372.2
72.5°	246.3	257.0	275.8	273.1	259.7
75°	182.1	192.8	195.5	176.7	158.0
77.5°	128.5	133.9	125.8	99.1	80.3
80°	80.3	83.0	69.6	42.8	37.5
82.5°	45.5	45.5	32.1	26.8	21.4
85°	21.4	21.4	16.1	13.4	10.7
87.5°	8.0	8.0	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498896

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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	13.79	15.37	14.16	15.69	16.00	15.37	16.95	15.74	17.27	17.58
	3H	15.13	16.55	15.51	16.87	17.23	16.64	18.06	17.02	18.39	18.75
	4H	15.50	16.83	15.90	17.17	17.55	16.84	18.17	17.24	18.51	18.89
	6H	15.66	16.89	16.07	17.25	17.65	16.83	18.06	17.25	18.43	18.82
	8H	15.68	16.84	16.10	17.23	17.63	16.81	17.98	17.23	18.37	18.77
	12H	15.67	16.79	16.10	17.17	17.60	16.78	17.90	17.21	18.28	18.71
4H	2H	14.46	15.79	14.86	16.14	16.51	15.75	17.08	16.15	17.43	17.80
	3H	15.96	17.06	16.37	17.46	17.86	17.19	18.29	17.60	18.69	19.09
	4H	16.40	17.39	16.83	17.80	18.24	17.44	18.43	17.87	18.84	19.28
	6H	16.62	17.48	17.08	17.92	18.38	17.47	18.33	17.92	18.77	19.23
	8H	16.65	17.45	17.11	17.89	18.36	17.44	18.24	17.90	18.68	19.15
	12H	16.65	17.37	17.13	17.84	18.31	17.42	18.13	17.90	18.61	19.08
8H	4H	16.56	17.36	17.02	17.80	18.27	17.52	18.33	17.99	18.77	19.24
	6H	16.82	17.47	17.31	17.96	18.44	17.56	18.22	18.05	18.71	19.18
	8H	16.86	17.45	17.37	17.95	18.44	17.53	18.12	18.04	18.63	19.12
	12H	16.88	17.40	17.39	17.89	18.45	17.52	18.04	18.03	18.53	19.09
12H	4H	16.54	17.25	17.02	17.73	18.20	17.51	18.23	17.99	18.70	19.17
	6H	16.79	17.38	17.30	17.89	18.37	17.53	18.12	18.04	18.63	19.12
	8H	16.85	17.37	17.36	17.87	18.43	17.53	18.05	18.04	18.54	19.10