

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: P1498092

Luminaire Tested: MAE-G-2-120-1HI-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498092
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-2-120-1HI-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

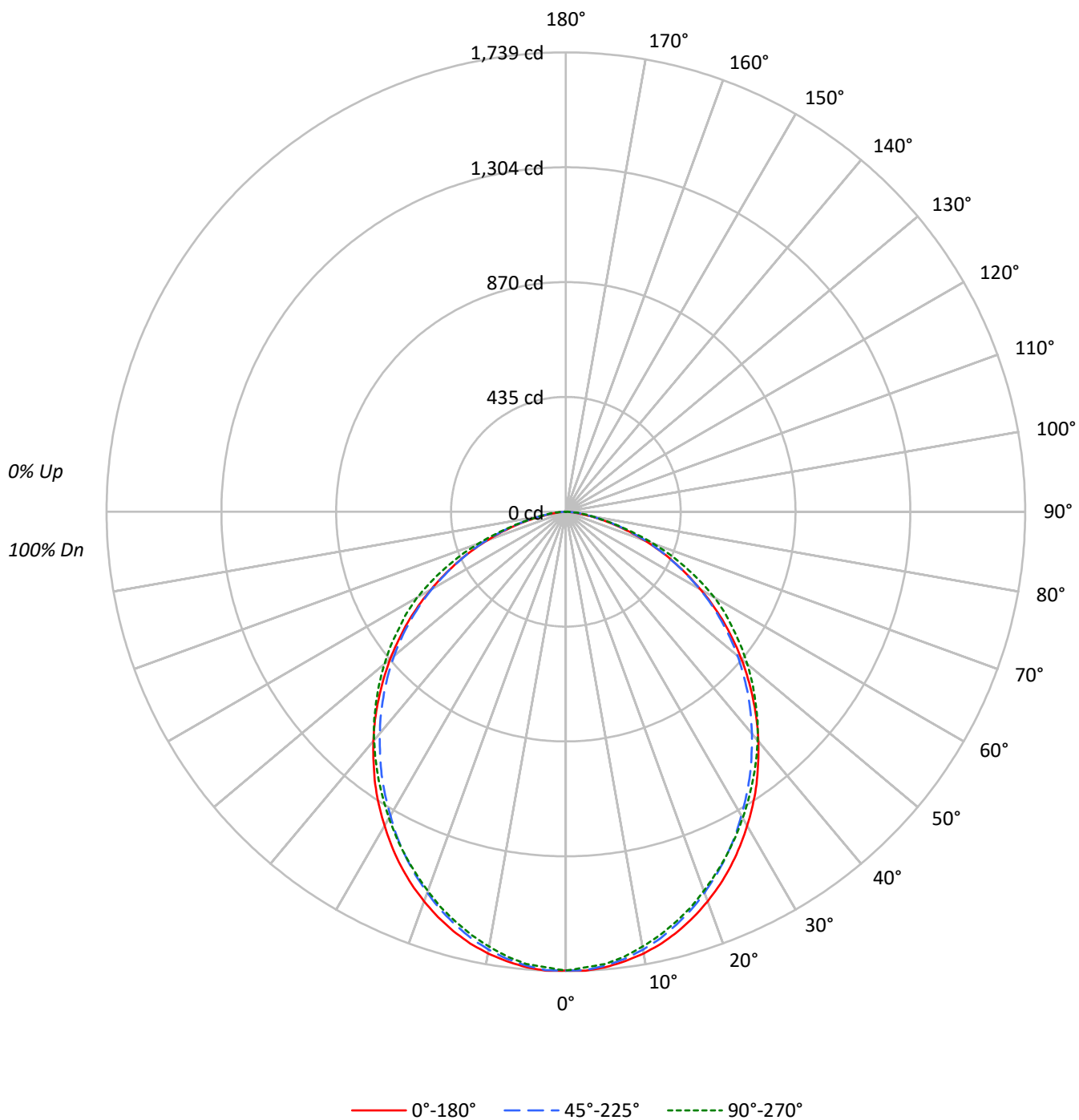
Lumens per Lamp: N/A
Luminaire Lumens: 4195.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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			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	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	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		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	28		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4673	4673	4673
5°	4675	4658	4641
10°	4639	4599	4568
15°	4579	4508	4478
20°	4494	4394	4375
25°	4391	4270	4267
30°	4266	4128	4160
35°	4135	3994	4061
40°	3984	3850	3968
45°	3815	3707	3862
50°	3636	3552	3752
55°	3429	3367	3626
60°	3173	3153	3501
65°	2880	2863	3202
70°	2492	2542	2771
75°	1979	2104	2147
80°	1358	1542	1581
85°	753	1121	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.9
10°-20°	456.5	10.9
20°-30°	666.1	15.9
30°-40°	769.7	18.3
40°-50°	764.7	18.2
50°-60°	656.5	15.7
60°-70°	459.9	11.0
70°-80°	215.0	5.1
80°-90°	43.4	1.0
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°	1285.8	30.7
0°-40°	2055.5	49.0
0°-60°	3476.7	82.9
0°-90°	4195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1730	1729	1724	1714	1718	164
15°	1644	1636	1618	1604	1607	463
25°	1479	1462	1438	1430	1437	681
35°	1259	1237	1216	1223	1236	786
45°	1002	985	974	999	1015	773
55°	731	714	718	751	773	653
65°	452	440	450	487	503	448
75°	190	185	202	210	206	206
85°	24	29	36	43	46	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.6	1736.6	1736.6	1736.6	1736.6
2.5°	1738.8	1740.0	1736.6	1724.7	1726.0
5°	1730.5	1728.7	1724.5	1714.5	1718.2
7.5°	1716.4	1714.4	1706.8	1695.4	1698.0
10°	1697.7	1693.8	1683.0	1669.1	1671.7
12.5°	1673.8	1669.0	1654.0	1639.0	1642.2
15°	1643.5	1636.4	1618.0	1603.5	1607.2
17.5°	1608.7	1601.5	1579.6	1564.2	1571.0
20°	1569.4	1559.1	1534.5	1520.9	1527.6
22.5°	1526.4	1513.2	1488.0	1476.0	1482.3
25°	1478.9	1462.5	1438.0	1429.9	1437.2
27.5°	1427.5	1409.8	1385.8	1379.4	1389.4
30°	1373.0	1354.2	1328.4	1327.9	1338.8
32.5°	1317.1	1297.6	1272.6	1276.9	1287.8
35°	1258.7	1237.0	1215.7	1222.8	1236.1
37.5°	1195.8	1175.7	1155.1	1170.6	1183.3
40°	1134.1	1113.0	1096.0	1115.2	1129.6
42.5°	1069.7	1050.0	1035.8	1057.5	1074.3
45°	1002.4	984.6	974.0	998.6	1014.9
47.5°	935.2	917.2	911.7	938.3	956.7
50°	868.5	851.8	848.5	878.0	896.2
52.5°	799.1	783.0	784.4	814.7	836.1
55°	730.9	714.5	717.7	751.1	772.8
57.5°	660.9	649.1	652.6	688.6	714.5
60°	589.6	577.5	585.9	627.3	650.5
62.5°	520.5	508.3	516.7	561.5	576.3
65°	452.3	439.9	449.6	486.7	502.8
67.5°	385.5	373.4	387.9	420.7	430.6
70°	316.7	306.3	323.1	349.0	352.2
72.5°	252.8	243.5	262.7	277.9	276.7
75°	190.3	185.3	202.4	209.6	206.5
77.5°	135.9	133.3	147.2	149.8	147.0
80°	87.6	89.7	99.5	100.5	102.0
82.5°	50.9	54.7	61.9	70.3	71.9
85°	24.4	29.0	36.3	43.0	45.5
87.5°	8.6	11.6	14.9	16.4	16.0
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	16.12	17.70	16.48	18.02	18.33	16.57	18.15	16.93	18.46	18.78
	3H	17.55	18.97	17.93	19.30	19.66	18.13	19.55	18.51	19.88	20.24
	4H	17.97	19.30	18.36	19.65	20.03	18.56	19.90	18.96	20.25	20.62
	6H	18.17	19.41	18.59	19.78	20.17	18.78	20.02	19.19	20.38	20.77
	8H	18.21	19.38	18.63	19.77	20.17	18.84	20.02	19.26	20.40	20.80
	12H	18.21	19.34	18.64	19.72	20.15	18.87	20.00	19.30	20.38	20.81
4H	2H	16.66	18.00	17.06	18.35	18.72	17.03	18.36	17.42	18.71	19.09
	3H	18.27	19.38	18.68	19.78	20.18	18.79	19.90	19.20	20.30	20.70
	4H	18.77	19.77	19.20	20.19	20.62	19.32	20.32	19.75	20.74	21.18
	6H	19.06	19.93	19.51	20.37	20.83	19.63	20.50	20.09	20.94	21.40
	8H	19.11	19.92	19.57	20.36	20.83	19.71	20.53	20.18	20.97	21.44
	12H	19.13	19.85	19.61	20.33	20.80	19.78	20.51	20.26	20.99	21.46
8H	4H	18.98	19.80	19.44	20.24	20.71	19.48	20.30	19.95	20.74	21.21
	6H	19.33	20.00	19.83	20.49	20.97	19.86	20.53	20.35	21.02	21.50
	8H	19.41	20.01	19.92	20.52	21.01	19.98	20.59	20.50	21.09	21.58
	12H	19.46	19.99	19.96	20.48	21.04	20.10	20.63	20.61	21.12	21.68
12H	4H	18.99	19.72	19.47	20.19	20.66	19.48	20.21	19.96	20.69	21.16
	6H	19.34	19.94	19.85	20.45	20.94	19.86	20.46	20.37	20.97	21.45
	8H	19.46	19.99	19.97	20.48	21.04	20.02	20.55	20.53	21.04	21.61

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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