

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: P1498104

Luminaire Tested: MAE-G-2-120-1HI-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498104
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

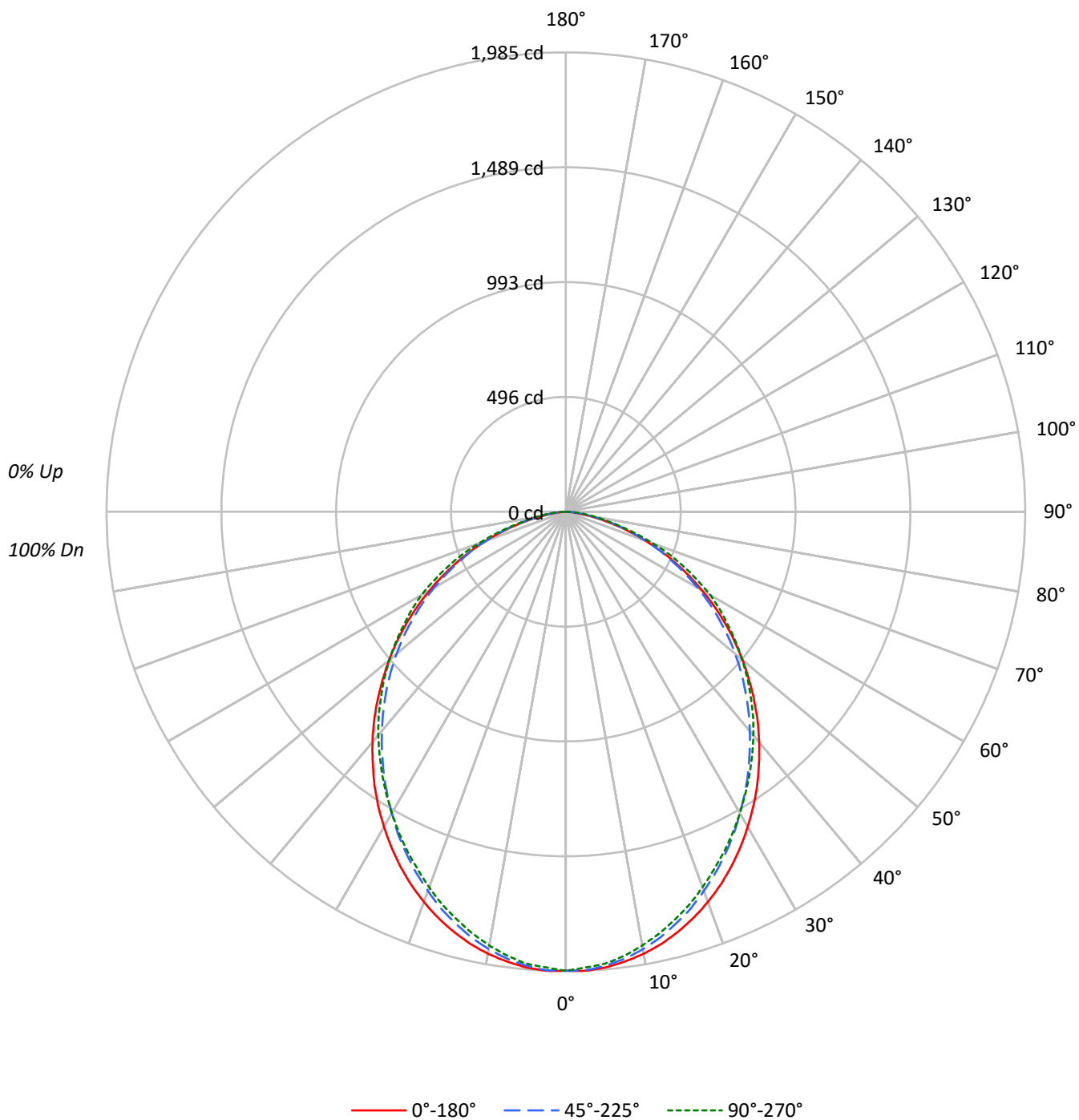
Lumens per Lamp: N/A
Luminaire Lumens: 4759.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	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	56		66	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5336	5336	5336
5°	5338	5318	5294
10°	5299	5245	5200
15°	5232	5132	5079
20°	5138	4993	4945
25°	5023	4842	4807
30°	4884	4673	4672
35°	4737	4513	4546
40°	4567	4345	4429
45°	4378	4177	4298
50°	4177	3998	4162
55°	3944	3788	4016
60°	3657	3545	3880
65°	3324	3227	3589
70°	2883	2891	3171
75°	2298	2439	2559
80°	1585	1855	1990
85°	883	1396	1797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.9
10°-20°	519.7	10.9
20°-30°	755.9	15.9
30°-40°	870.9	18.3
40°-50°	863.0	18.1
50°-60°	739.6	15.5
60°-70°	520.5	10.9
70°-80°	250.0	5.3
80°-90°	53.3	1.1
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°	1461.7	30.7
0°-40°	2332.7	49.0
0°-60°	3935.2	82.7
0°-90°	4759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1976	1974	1969	1956	1960	187
15°	1878	1868	1842	1820	1823	529
25°	1692	1669	1631	1613	1619	779
35°	1442	1411	1374	1373	1384	901
45°	1150	1123	1098	1115	1130	887
55°	841	815	807	836	856	750
65°	522	502	507	546	564	517
75°	221	213	235	247	246	239
85°	29	35	45	54	58	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1985.4	1986.9	1983.1	1968.6	1970.8
5°	1976.2	1974.4	1968.8	1955.7	1960.0
7.5°	1960.3	1957.8	1947.7	1932.3	1935.1
10°	1939.3	1934.2	1919.4	1900.3	1902.9
12.5°	1912.0	1905.3	1884.6	1863.1	1866.1
15°	1878.0	1868.2	1842.0	1819.9	1823.0
17.5°	1838.7	1827.9	1796.4	1772.5	1778.7
20°	1794.3	1779.4	1743.5	1721.1	1726.8
22.5°	1745.5	1726.8	1689.2	1668.1	1672.9
25°	1691.8	1668.9	1630.8	1613.4	1619.1
27.5°	1633.7	1608.7	1570.0	1554.4	1562.8
30°	1571.9	1545.0	1503.9	1494.5	1503.6
32.5°	1508.5	1480.1	1439.6	1435.3	1444.3
35°	1442.0	1410.8	1373.8	1372.8	1383.9
37.5°	1370.7	1340.9	1304.6	1312.2	1322.9
40°	1300.2	1269.4	1236.8	1248.4	1260.9
42.5°	1226.9	1197.4	1168.1	1182.5	1197.1
45°	1150.4	1122.6	1097.6	1115.4	1129.5
47.5°	1073.8	1046.2	1026.9	1047.0	1063.3
50°	997.7	971.3	955.0	978.4	994.2
52.5°	918.1	892.8	882.5	907.0	926.5
55°	840.6	814.9	807.3	835.5	855.9
57.5°	760.7	740.2	733.8	765.9	790.8
60°	679.4	659.1	658.7	697.8	721.0
62.5°	600.2	580.2	581.7	626.1	642.1
65°	522.1	502.2	506.8	546.3	563.6
67.5°	445.1	426.6	438.2	475.2	486.5
70°	366.4	350.0	367.4	398.0	403.0
72.5°	292.7	278.7	300.9	321.4	321.9
75°	221.0	212.6	234.6	247.2	246.1
77.5°	158.0	153.6	173.4	181.1	180.5
80°	102.3	104.6	119.7	125.5	128.4
82.5°	59.6	64.6	76.3	88.2	91.2
85°	28.6	34.6	45.2	54.5	58.2
87.5°	9.9	13.9	18.8	20.8	20.2
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	16.61	18.19	16.97	18.50	18.82	16.86	18.44	17.22	18.76	19.07
	3H	18.05	19.47	18.43	19.80	20.16	18.48	19.90	18.86	20.23	20.59
	4H	18.47	19.81	18.87	20.16	20.54	18.96	20.30	19.36	20.64	21.02
	6H	18.69	19.93	19.10	20.29	20.68	19.23	20.47	19.64	20.83	21.22
	8H	18.72	19.90	19.15	20.29	20.69	19.31	20.49	19.73	20.88	21.28
	12H	18.73	19.86	19.16	20.24	20.67	19.36	20.49	19.79	20.87	21.30
4H	2H	17.13	18.47	17.53	18.81	19.19	17.34	18.67	17.73	19.02	19.40
	3H	18.76	19.87	19.17	20.27	20.67	19.16	20.27	19.57	20.67	21.07
	4H	19.27	20.27	19.70	20.68	21.12	19.75	20.75	20.18	21.17	21.60
	6H	19.56	20.43	20.02	20.88	21.33	20.12	20.99	20.57	21.43	21.89
	8H	19.61	20.43	20.08	20.87	21.34	20.23	21.04	20.69	21.49	21.95
	12H	19.64	20.37	20.12	20.84	21.31	20.32	21.05	20.80	21.52	21.99
8H	4H	19.49	20.30	19.95	20.74	21.21	19.92	20.74	20.38	21.18	21.65
	6H	19.85	20.52	20.34	21.01	21.49	20.37	21.04	20.86	21.53	22.01
	8H	19.93	20.54	20.44	21.04	21.53	20.53	21.13	21.04	21.64	22.13
	12H	19.98	20.52	20.49	21.01	21.57	20.67	21.21	21.18	21.70	22.26
12H	4H	19.50	20.23	19.98	20.70	21.17	19.92	20.65	20.40	21.13	21.60
	6H	19.86	20.47	20.38	20.98	21.46	20.37	20.98	20.88	21.49	21.97
	8H	19.99	20.52	20.50	21.01	21.58	20.58	21.11	21.08	21.60	22.16