

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: P1498080

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498080
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-35-90
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

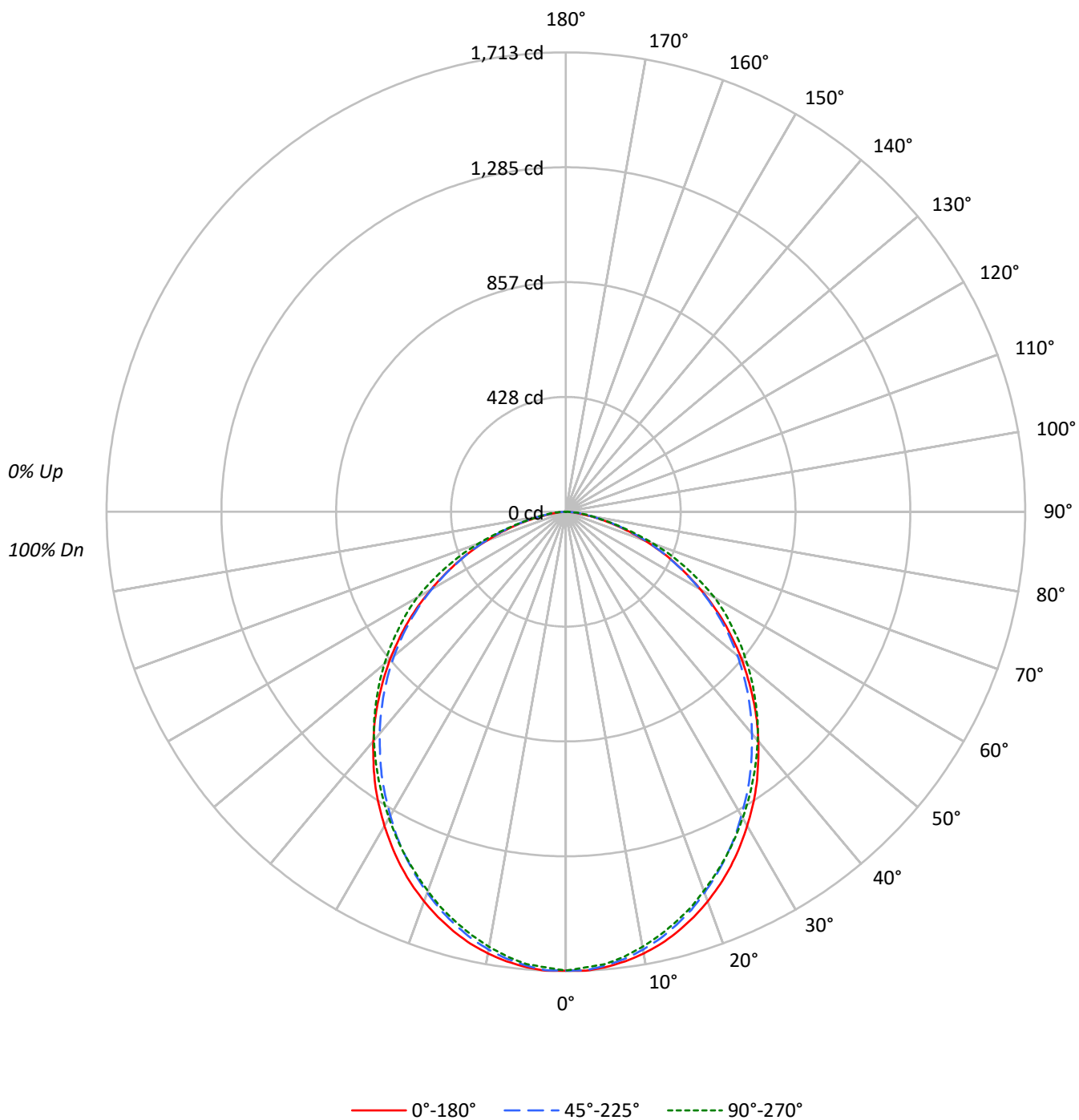
Lumens per Lamp: N/A
Luminaire Lumens: 4133.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	80	98	90	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	76	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4604	4604	4604
5°	4605	4589	4572
10°	4571	4531	4501
15°	4511	4441	4411
20°	4428	4330	4310
25°	4326	4206	4204
30°	4203	4066	4099
35°	4073	3935	4001
40°	3925	3793	3910
45°	3758	3652	3805
50°	3582	3500	3697
55°	3378	3317	3573
60°	3126	3107	3449
65°	2837	2821	3154
70°	2455	2505	2730
75°	1949	2073	2114
80°	1337	1519	1557
85°	741	1102	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3805 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.9
10°-20°	449.8	10.9
20°-30°	656.2	15.9
30°-40°	758.3	18.3
40°-50°	753.4	18.2
50°-60°	646.8	15.7
60°-70°	453.1	11.0
70°-80°	211.8	5.1
80°-90°	42.8	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°	1266.8	30.7
0°-40°	2025.1	49.0
0°-60°	3425.4	82.9
0°-90°	4133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1705	1703	1699	1689	1693	162
15°	1619	1612	1594	1580	1583	456
25°	1457	1441	1417	1409	1416	670
35°	1240	1219	1198	1205	1218	775
45°	988	970	960	984	1000	762
55°	720	704	707	740	762	643
65°	446	433	443	480	495	441
75°	188	183	199	206	203	203
85°	24	28	36	42	45	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.0	1711.0	1711.0	1711.0	1711.0
2.5°	1713.0	1714.2	1711.0	1699.2	1700.5
5°	1704.8	1703.2	1699.0	1689.2	1692.7
7.5°	1691.0	1689.1	1681.6	1670.4	1672.8
10°	1672.7	1668.9	1658.1	1644.5	1647.1
12.5°	1649.0	1644.3	1629.5	1614.7	1618.0
15°	1619.3	1612.3	1594.1	1579.8	1583.4
17.5°	1585.0	1577.9	1556.3	1541.1	1547.7
20°	1546.2	1536.1	1511.9	1498.4	1504.9
22.5°	1503.7	1490.8	1466.0	1454.2	1460.4
25°	1457.1	1440.9	1416.7	1408.7	1415.9
27.5°	1406.4	1389.0	1365.4	1359.0	1368.9
30°	1352.6	1334.2	1308.7	1308.3	1319.1
32.5°	1297.7	1278.4	1253.8	1258.1	1268.8
35°	1240.0	1218.7	1197.7	1204.8	1217.8
37.5°	1178.2	1158.3	1138.1	1153.2	1165.9
40°	1117.3	1096.6	1079.8	1098.7	1113.0
42.5°	1054.0	1034.5	1020.5	1041.9	1058.4
45°	987.5	970.1	959.7	983.8	999.9
47.5°	921.4	903.7	898.2	924.4	942.6
50°	855.7	839.2	836.0	865.0	883.0
52.5°	787.3	771.3	772.8	802.7	823.8
55°	720.1	703.9	707.1	740.1	761.5
57.5°	651.2	639.5	643.0	678.5	704.0
60°	580.9	569.0	577.3	618.0	640.9
62.5°	512.8	500.8	509.2	553.2	567.8
65°	445.6	433.3	443.0	479.5	495.3
67.5°	379.8	367.9	382.2	414.5	424.2
70°	312.0	301.7	318.4	343.9	347.0
72.5°	249.0	239.9	258.8	273.8	272.6
75°	187.5	182.6	199.4	206.5	203.3
77.5°	133.9	131.3	145.0	147.6	144.8
80°	86.3	88.4	98.0	99.1	100.5
82.5°	50.1	53.9	61.0	69.2	70.8
85°	24.0	28.5	35.7	42.4	44.8
87.5°	8.4	11.4	14.7	16.2	15.8
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	16.07	17.65	16.43	17.96	18.28	16.51	18.10	16.88	18.41	18.72
	3H	17.50	18.92	17.87	19.25	19.61	18.08	19.50	18.45	19.83	20.19
	4H	17.91	19.25	18.31	19.60	19.98	18.51	19.85	18.91	20.19	20.57
	6H	18.12	19.36	18.53	19.72	20.12	18.73	19.97	19.14	20.33	20.72
	8H	18.15	19.33	18.58	19.72	20.12	18.79	19.96	19.21	20.35	20.75
	12H	18.16	19.28	18.59	19.67	20.10	18.82	19.95	19.25	20.33	20.76
4H	2H	16.61	17.95	17.01	18.29	18.67	16.97	18.31	17.37	18.66	19.04
	3H	18.22	19.33	18.63	19.73	20.13	18.74	19.85	19.15	20.25	20.65
	4H	18.72	19.72	19.15	20.13	20.57	19.27	20.27	19.70	20.69	21.12
	6H	19.01	19.88	19.46	20.32	20.78	19.58	20.45	20.03	20.89	21.35
	8H	19.06	19.87	19.52	20.31	20.78	19.66	20.48	20.12	20.92	21.39
	12H	19.07	19.80	19.56	20.28	20.75	19.73	20.46	20.21	20.93	21.40
8H	4H	18.93	19.74	19.39	20.19	20.65	19.43	20.25	19.89	20.69	21.16
	6H	19.28	19.95	19.77	20.44	20.92	19.81	20.48	20.30	20.97	21.44
	8H	19.36	19.96	19.87	20.47	20.95	19.93	20.53	20.44	21.04	21.53
	12H	19.40	19.94	19.91	20.43	20.99	20.05	20.58	20.55	21.07	21.63
12H	4H	18.94	19.66	19.42	20.14	20.61	19.43	20.16	19.91	20.63	21.10
	6H	19.29	19.89	19.80	20.40	20.89	19.80	20.41	20.32	20.92	21.40
	8H	19.41	19.94	19.91	20.43	20.99	19.97	20.50	20.48	20.99	21.56