

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: P1498290

Luminaire Tested: MAE-G-2-120-1STD-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498290
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-2-120-1STD-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

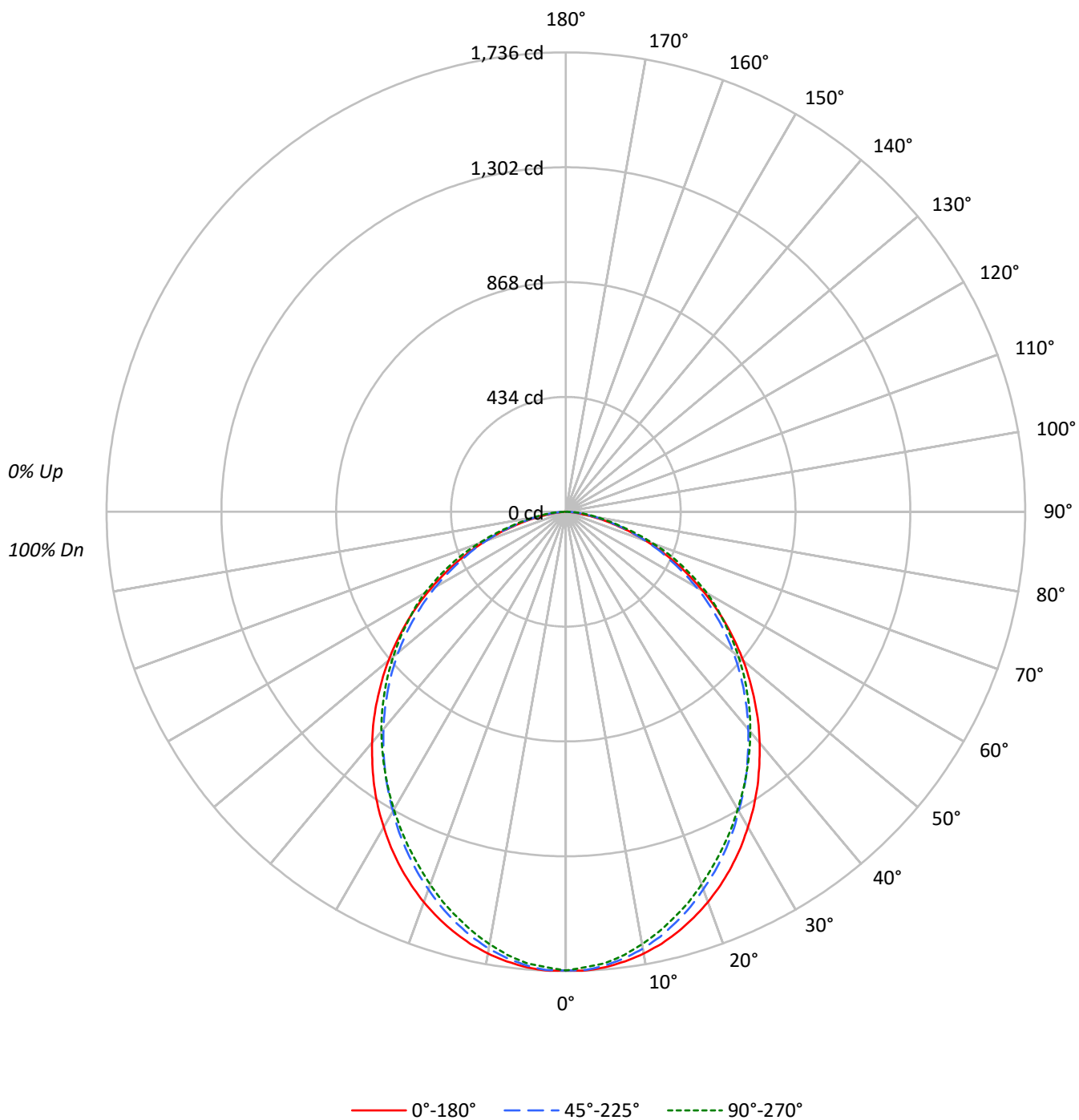
Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	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°	4665	4665	4665
5°	4666	4648	4625
10°	4633	4580	4535
15°	4575	4476	4419
20°	4495	4349	4292
25°	4396	4212	4163
30°	4277	4060	4037
35°	4150	3916	3920
40°	4003	3766	3810
45°	3840	3618	3690
50°	3666	3460	3564
55°	3464	3276	3434
60°	3216	3066	3321
65°	2928	2795	3097
70°	2542	2519	2776
75°	2031	2154	2303
80°	1407	1680	1849
85°	787	1291	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	3.9
10°-20°	453.2	10.9
20°-30°	657.8	15.9
30°-40°	756.5	18.3
40°-50°	748.2	18.1
50°-60°	640.3	15.5
60°-70°	452.2	10.9
70°-80°	221.2	5.3
80°-90°	48.8	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°	1273.7	30.8
0°-40°	2030.2	49.0
0°-60°	3418.8	82.6
0°-90°	4141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1728	1726	1721	1708	1712	164
15°	1642	1633	1607	1584	1586	463
25°	1481	1458	1419	1399	1402	681
35°	1263	1232	1192	1186	1193	789
45°	1009	980	951	960	970	778
55°	738	712	698	717	732	659
65°	460	439	439	472	486	455
75°	195	186	207	221	222	211
85°	26	31	42	51	55	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.4	1733.4	1733.4	1733.4	1733.4
2.5°	1735.5	1736.9	1733.4	1720.3	1722.7
5°	1727.5	1726.1	1720.8	1708.2	1712.1
7.5°	1713.7	1711.3	1701.7	1686.7	1689.2
10°	1695.5	1690.6	1676.3	1657.5	1659.6
12.5°	1671.8	1665.1	1644.9	1623.5	1625.6
15°	1642.2	1632.7	1606.8	1584.0	1586.1
17.5°	1608.2	1597.2	1565.7	1541.1	1545.7
20°	1569.8	1554.9	1518.7	1495.1	1498.9
22.5°	1527.3	1508.7	1470.6	1447.6	1450.4
25°	1480.6	1458.0	1418.7	1398.7	1402.0
27.5°	1430.3	1405.4	1364.8	1346.2	1351.7
30°	1376.5	1349.7	1306.7	1293.2	1299.1
32.5°	1321.3	1292.8	1250.2	1240.8	1246.6
35°	1263.2	1232.1	1192.2	1185.7	1193.2
37.5°	1201.1	1171.2	1131.6	1132.2	1139.2
40°	1139.6	1108.6	1072.2	1076.2	1084.7
42.5°	1075.6	1045.6	1012.1	1018.6	1028.6
45°	1009.0	980.2	950.6	960.1	969.5
47.5°	942.1	913.7	889.1	900.4	911.8
50°	875.7	848.3	826.4	840.7	851.4
52.5°	805.9	779.7	763.4	778.7	792.7
55°	738.4	711.8	698.2	716.9	732.0
57.5°	668.5	646.4	634.6	657.1	676.1
60°	597.6	575.9	569.6	598.8	617.0
62.5°	528.2	507.0	503.3	538.2	551.6
65°	459.8	439.0	439.0	471.9	486.4
67.5°	392.0	373.0	380.2	412.3	422.1
70°	323.1	306.0	320.1	347.5	352.8
72.5°	258.3	243.9	263.6	283.4	285.1
75°	195.3	186.4	207.2	220.8	221.5
77.5°	139.8	135.2	154.7	164.4	165.5
80°	90.8	92.8	108.4	116.1	119.3
82.5°	53.0	57.8	70.1	82.0	85.3
85°	25.5	31.2	41.8	50.9	54.7
87.5°	8.8	12.6	17.5	19.4	18.8
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	16.16	17.74	16.52	18.05	18.37	16.27	17.86	16.64	18.17	18.48
	3H	17.61	19.03	17.98	19.36	19.72	17.93	19.36	18.31	19.68	20.05
	4H	18.04	19.38	18.44	19.72	20.10	18.45	19.79	18.85	20.14	20.51
	6H	18.26	19.50	18.67	19.86	20.25	18.76	20.00	19.17	20.36	20.75
	8H	18.29	19.48	18.72	19.86	20.26	18.85	20.03	19.28	20.42	20.82
	12H	18.30	19.43	18.73	19.81	20.24	18.92	20.05	19.35	20.43	20.86
4H	2H	16.67	18.00	17.06	18.35	18.73	16.76	18.10	17.16	18.45	18.83
	3H	18.30	19.42	18.71	19.82	20.22	18.63	19.74	19.04	20.14	20.54
	4H	18.82	19.82	19.25	20.24	20.68	19.26	20.26	19.69	20.68	21.11
	6H	19.12	20.00	19.58	20.44	20.90	19.67	20.55	20.13	20.99	21.45
	8H	19.18	20.00	19.64	20.44	20.91	19.80	20.62	20.27	21.06	21.53
	12H	19.20	19.94	19.68	20.41	20.88	19.91	20.64	20.39	21.12	21.59
8H	4H	19.05	19.86	19.51	20.31	20.77	19.44	20.26	19.90	20.70	21.17
	6H	19.42	20.09	19.91	20.58	21.06	19.94	20.62	20.44	21.11	21.58
	8H	19.51	20.11	20.02	20.62	21.11	20.13	20.73	20.64	21.24	21.73
	12H	19.56	20.10	20.07	20.59	21.15	20.29	20.83	20.80	21.32	21.88
12H	4H	19.06	19.79	19.54	20.27	20.74	19.44	20.17	19.92	20.65	21.12
	6H	19.44	20.05	19.95	20.56	21.04	19.95	20.56	20.46	21.06	21.55
	8H	19.57	20.11	20.08	20.60	21.16	20.18	20.71	20.69	21.20	21.77