

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: P1498329

Luminaire Tested: MAE-G-2-120-2HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

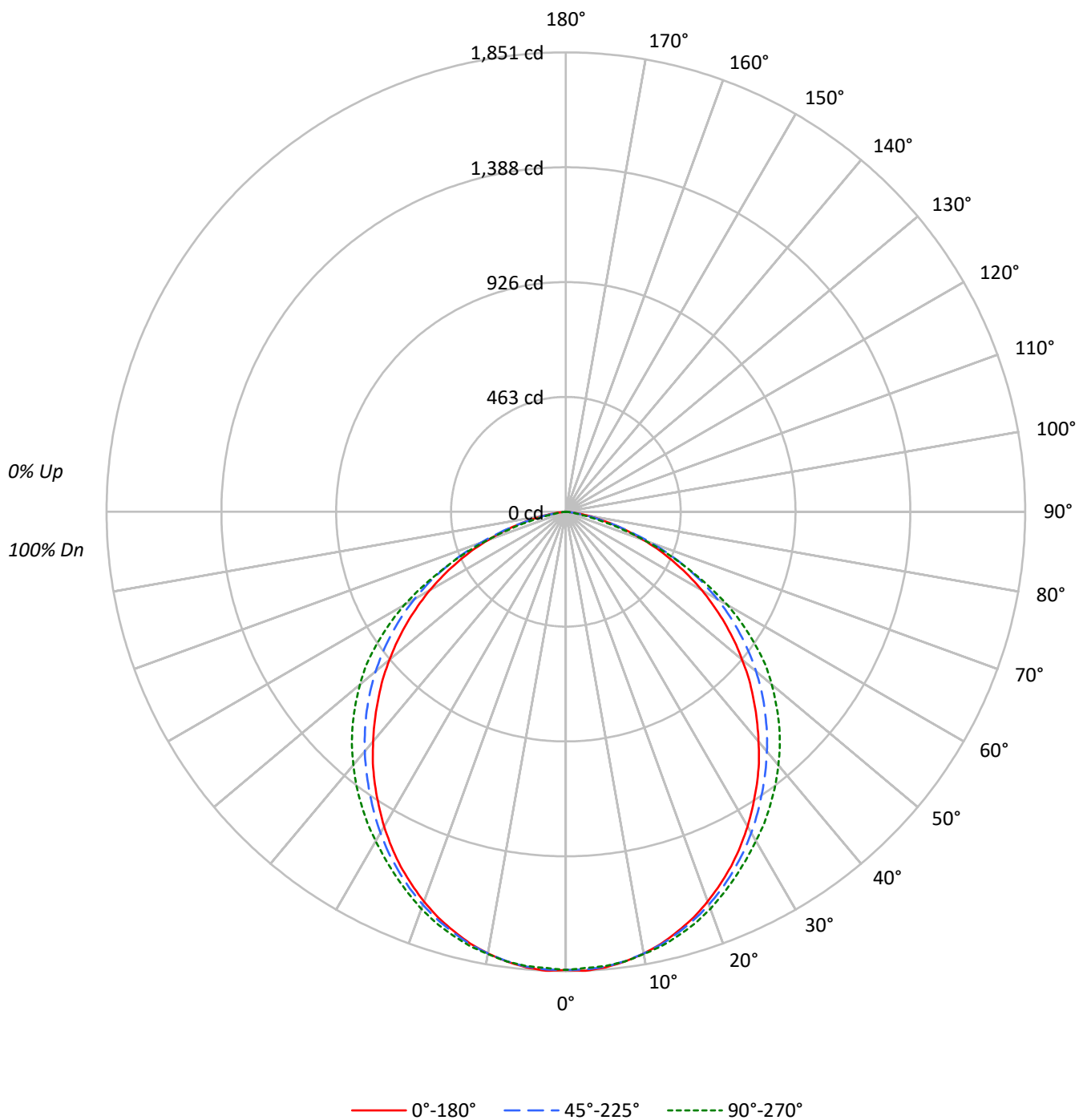
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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			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	102	98	107	103	100	97	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65	59	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		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	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	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4968	4968	4968
5°	4977	4968	4963
10°	4938	4938	4945
15°	4872	4890	4919
20°	4786	4826	4875
25°	4679	4741	4812
30°	4550	4644	4761
35°	4407	4530	4724
40°	4243	4429	4679
45°	4070	4318	4628
50°	3882	4189	4535
55°	3667	4020	4364
60°	3408	3795	4052
65°	3074	3449	3469
70°	2624	2870	2683
75°	2060	2078	1675
80°	1340	1069	642
85°	621	408	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.7
10°-20°	494.5	10.6
20°-30°	734.6	15.8
30°-40°	865.3	18.6
40°-50°	876.6	18.8
50°-60°	763.0	16.4
60°-70°	519.9	11.2
70°-80°	207.8	4.5
80°-90°	23.8	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°	1403.5	30.1
0°-40°	2268.8	48.7
0°-60°	3908.4	83.9
0°-90°	4660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1842	1832	1839	1837	1837	175
15°	1749	1741	1755	1762	1766	493
25°	1576	1577	1597	1610	1620	725
35°	1342	1348	1379	1415	1438	838
45°	1070	1083	1135	1188	1216	825
55°	782	799	857	911	930	698
65°	483	505	542	542	545	478
75°	198	210	200	172	161	213
85°	20	18	13	12	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.1	1846.1	1846.1	1846.1	1846.1
2.5°	1851.2	1839.3	1846.1	1844.8	1839.8
5°	1842.3	1831.6	1839.3	1836.8	1837.3
7.5°	1827.9	1817.9	1826.1	1825.4	1827.4
10°	1807.3	1797.3	1807.3	1807.8	1809.8
12.5°	1781.5	1772.8	1784.7	1787.2	1791.6
15°	1748.9	1741.4	1755.2	1761.5	1765.8
17.5°	1713.9	1708.9	1722.6	1730.8	1737.7
20°	1671.2	1668.7	1685.1	1693.1	1702.5
22.5°	1624.8	1623.5	1643.1	1653.1	1662.5
25°	1575.9	1576.6	1596.7	1609.8	1620.5
27.5°	1522.0	1523.2	1547.8	1563.4	1576.6
30°	1464.3	1467.5	1494.4	1515.7	1532.1
32.5°	1403.5	1409.2	1438.0	1467.5	1488.2
35°	1341.5	1347.8	1379.1	1415.4	1438.0
37.5°	1277.6	1284.5	1320.8	1363.5	1387.3
40°	1208.0	1218.6	1260.7	1307.6	1332.0
42.5°	1139.6	1151.5	1198.6	1250.0	1276.3
45°	1069.5	1082.6	1134.6	1187.9	1216.1
47.5°	1001.7	1012.9	1068.8	1124.6	1149.7
50°	927.2	942.1	1000.5	1056.3	1083.2
52.5°	855.7	870.1	929.7	986.6	1014.3
55°	781.7	798.6	856.9	910.8	930.2
57.5°	707.2	726.6	783.0	827.4	844.3
60°	633.2	652.6	705.2	740.3	752.9
62.5°	558.5	578.6	625.0	646.3	648.8
65°	482.7	505.3	541.6	542.3	544.8
67.5°	410.7	429.4	455.7	448.2	444.5
70°	333.5	354.1	364.8	349.8	341.0
72.5°	265.2	280.2	278.3	256.3	245.8
75°	198.1	210.0	199.9	171.8	161.1
77.5°	137.3	147.3	127.2	100.9	90.3
80°	86.5	90.9	69.0	48.9	41.4
82.5°	46.4	45.7	29.5	24.4	22.6
85°	20.1	18.2	13.2	11.9	10.7
87.5°	6.9	6.2	5.0	4.4	3.7
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	16.49	18.07	16.85	18.38	18.70	17.45	19.03	17.81	19.34	19.66
	3H	17.91	19.33	18.28	19.65	20.01	18.64	20.06	19.01	20.38	20.74
	4H	18.30	19.63	18.70	19.98	20.36	18.85	20.18	19.25	20.53	20.91
	6H	18.47	19.70	18.89	20.07	20.46	18.87	20.10	19.28	20.47	20.86
	8H	18.49	19.66	18.91	20.05	20.45	18.85	20.02	19.27	20.41	20.81
	12H	18.48	19.60	18.91	19.98	20.41	18.82	19.94	19.25	20.32	20.75
4H	2H	17.15	18.48	17.55	18.83	19.20	17.92	19.25	18.32	19.60	19.98
	3H	18.72	19.83	19.13	20.23	20.63	19.27	20.37	19.68	20.77	21.17
	4H	19.20	20.19	19.63	20.61	21.04	19.54	20.53	19.97	20.94	21.38
	6H	19.44	20.30	19.90	20.74	21.20	19.59	20.45	20.05	20.89	21.35
	8H	19.46	20.27	19.93	20.71	21.18	19.56	20.37	20.03	20.81	21.28
	12H	19.46	20.18	19.94	20.66	21.13	19.54	20.26	20.03	20.74	21.21
8H	4H	19.34	20.14	19.80	20.58	21.05	19.65	20.46	20.11	20.90	21.37
	6H	19.61	20.27	20.11	20.76	21.24	19.71	20.37	20.21	20.86	21.34
	8H	19.65	20.24	20.16	20.75	21.24	19.69	20.28	20.20	20.79	21.28
	12H	19.66	20.18	20.17	20.68	21.24	19.67	20.19	20.18	20.69	21.25
12H	4H	19.32	20.04	19.80	20.51	20.98	19.64	20.36	20.12	20.84	21.31
	6H	19.58	20.17	20.09	20.68	21.17	19.69	20.28	20.20	20.79	21.28
	8H	19.65	20.17	20.15	20.66	21.22	19.69	20.21	20.20	20.70	21.26