

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: P1498296

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498296
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-35-90
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

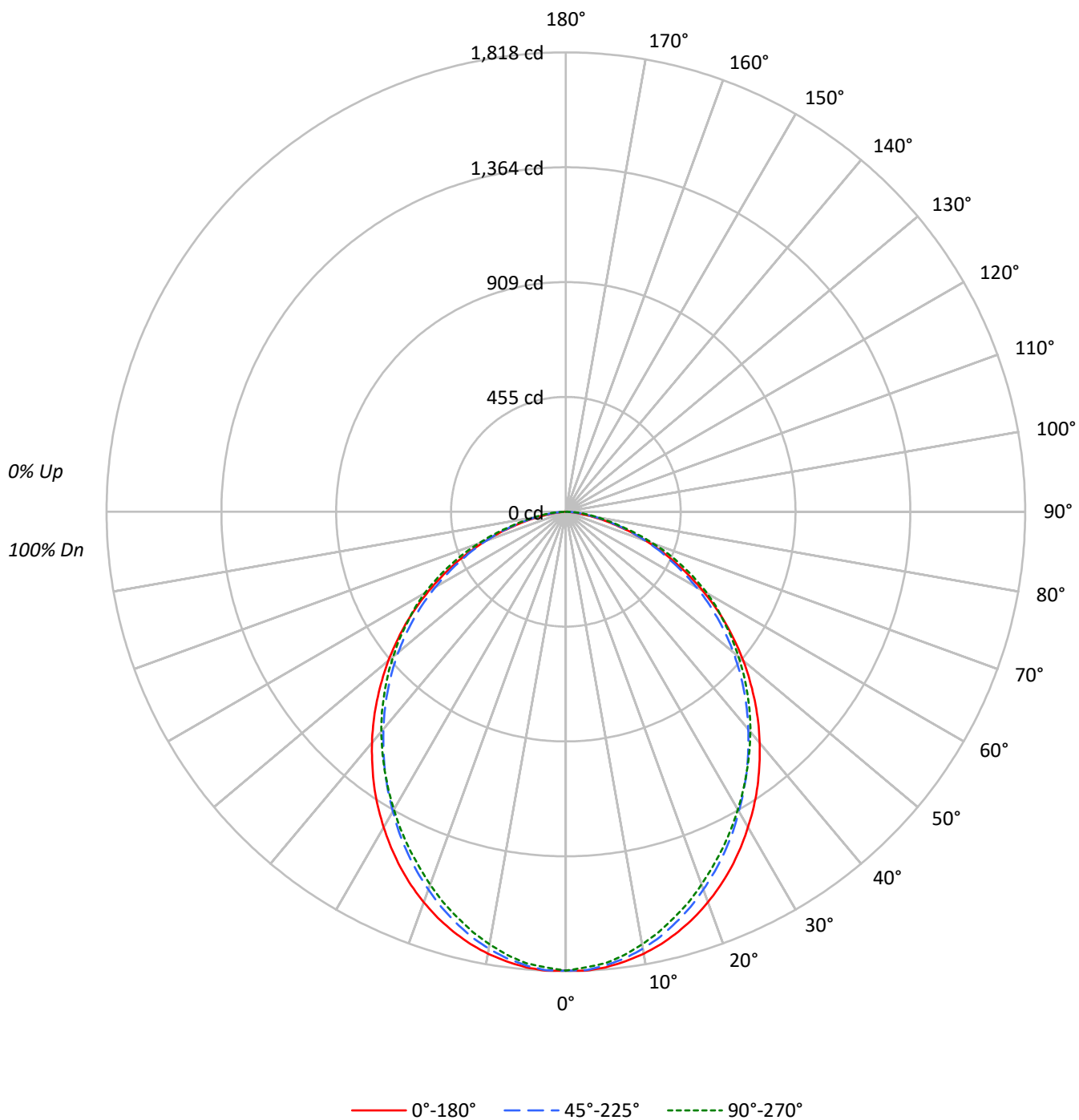
Lumens per Lamp: N/A
Luminaire Lumens: 4338.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4887	4887	4887
5°	4888	4869	4845
10°	4853	4798	4750
15°	4793	4689	4629
20°	4709	4556	4497
25°	4605	4413	4361
30°	4480	4254	4229
35°	4347	4103	4106
40°	4194	3946	3991
45°	4023	3790	3865
50°	3840	3624	3734
55°	3628	3432	3598
60°	3369	3211	3479
65°	3067	2928	3244
70°	2663	2639	2907
75°	2127	2256	2412
80°	1474	1759	1937
85°	824	1352	1769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.9
10°-20°	474.8	10.9
20°-30°	689.1	15.9
30°-40°	792.5	18.3
40°-50°	783.8	18.1
50°-60°	670.8	15.5
60°-70°	473.7	10.9
70°-80°	231.8	5.3
80°-90°	51.1	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°	1334.3	30.8
0°-40°	2126.8	49.0
0°-60°	3581.4	82.6
0°-90°	4338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1810	1808	1802	1789	1794	172
15°	1720	1710	1683	1659	1662	485
25°	1551	1527	1486	1465	1469	714
35°	1323	1291	1249	1242	1250	827
45°	1057	1027	996	1006	1016	815
55°	773	746	732	751	767	690
65°	482	460	460	494	510	477
75°	205	195	217	231	232	221
85°	27	33	44	53	57	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.9	1815.9	1815.9	1815.9	1815.9
2.5°	1818.0	1819.5	1815.9	1802.1	1804.5
5°	1809.7	1808.1	1802.5	1789.4	1793.5
7.5°	1795.2	1792.7	1782.6	1767.0	1769.6
10°	1776.1	1771.0	1756.0	1736.4	1738.5
12.5°	1751.3	1744.3	1723.2	1700.7	1702.9
15°	1720.4	1710.3	1683.2	1659.4	1661.6
17.5°	1684.7	1673.2	1640.3	1614.4	1619.2
20°	1644.4	1628.8	1590.9	1566.2	1570.2
22.5°	1600.0	1580.5	1540.5	1516.5	1519.4
25°	1551.0	1527.4	1486.2	1465.2	1468.8
27.5°	1498.2	1472.3	1429.7	1410.3	1416.0
30°	1441.9	1413.9	1368.9	1354.8	1360.9
32.5°	1384.1	1354.3	1309.6	1299.8	1306.0
35°	1323.4	1290.7	1248.9	1242.1	1249.9
37.5°	1258.3	1226.8	1185.5	1186.1	1193.4
40°	1193.8	1161.4	1123.2	1127.4	1136.2
42.5°	1126.8	1095.4	1060.3	1067.0	1077.5
45°	1057.1	1026.8	995.8	1005.7	1015.7
47.5°	987.0	957.1	931.3	943.3	955.3
50°	917.3	888.6	865.7	880.7	891.9
52.5°	844.2	816.8	799.8	815.8	830.5
55°	773.4	745.6	731.5	751.0	766.8
57.5°	700.3	677.2	664.8	688.4	708.3
60°	626.0	603.3	596.6	627.3	646.4
62.5°	553.3	531.1	527.3	563.8	577.9
65°	481.7	459.9	459.9	494.3	509.5
67.5°	410.7	390.8	398.3	431.8	442.2
70°	338.5	320.7	335.4	364.1	369.5
72.5°	270.6	255.6	276.2	296.9	298.6
75°	204.6	195.3	217.0	231.3	232.0
77.5°	146.5	141.6	162.1	172.2	173.3
80°	95.1	97.2	113.5	121.6	125.0
82.5°	55.5	60.5	73.4	85.8	89.3
85°	26.7	32.7	43.8	53.3	57.3
87.5°	9.2	13.2	18.3	20.3	19.7
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	16.32	17.90	16.68	18.21	18.53	16.44	18.02	16.80	18.33	18.65
	3H	17.77	19.19	18.15	19.52	19.88	18.09	19.52	18.47	19.85	20.21
	4H	18.20	19.54	18.60	19.89	20.26	18.61	19.95	19.01	20.30	20.67
	6H	18.42	19.66	18.83	20.03	20.42	18.92	20.16	19.33	20.52	20.92
	8H	18.46	19.64	18.88	20.03	20.43	19.01	20.19	19.44	20.58	20.98
	12H	18.46	19.59	18.89	19.97	20.40	19.08	20.21	19.51	20.59	21.02
4H	2H	16.83	18.17	17.23	18.51	18.89	16.92	18.26	17.32	18.61	18.99
	3H	18.47	19.58	18.88	19.98	20.38	18.79	19.90	19.20	20.30	20.70
	4H	18.98	19.99	19.41	20.40	20.84	19.42	20.42	19.85	20.84	21.28
	6H	19.29	20.16	19.74	20.60	21.06	19.83	20.71	20.29	21.15	21.61
	8H	19.34	20.16	19.80	20.60	21.07	19.96	20.78	20.43	21.23	21.69
	12H	19.37	20.10	19.85	20.57	21.04	20.07	20.80	20.55	21.28	21.75
8H	4H	19.21	20.03	19.67	20.47	20.94	19.60	20.42	20.07	20.86	21.33
	6H	19.58	20.26	20.08	20.75	21.22	20.10	20.78	20.60	21.27	21.74
	8H	19.67	20.28	20.18	20.78	21.27	20.29	20.89	20.80	21.40	21.89
	12H	19.72	20.26	20.23	20.75	21.31	20.45	20.99	20.96	21.48	22.04
12H	4H	19.22	19.95	19.70	20.43	20.90	19.60	20.34	20.08	20.81	21.28
	6H	19.60	20.21	20.11	20.72	21.20	20.11	20.72	20.62	21.22	21.71
	8H	19.73	20.27	20.24	20.76	21.32	20.34	20.87	20.85	21.37	21.93