

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: P1499085

Luminaire Tested: MAE-G-4-120-1STD-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499085
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-4-120-1STD-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

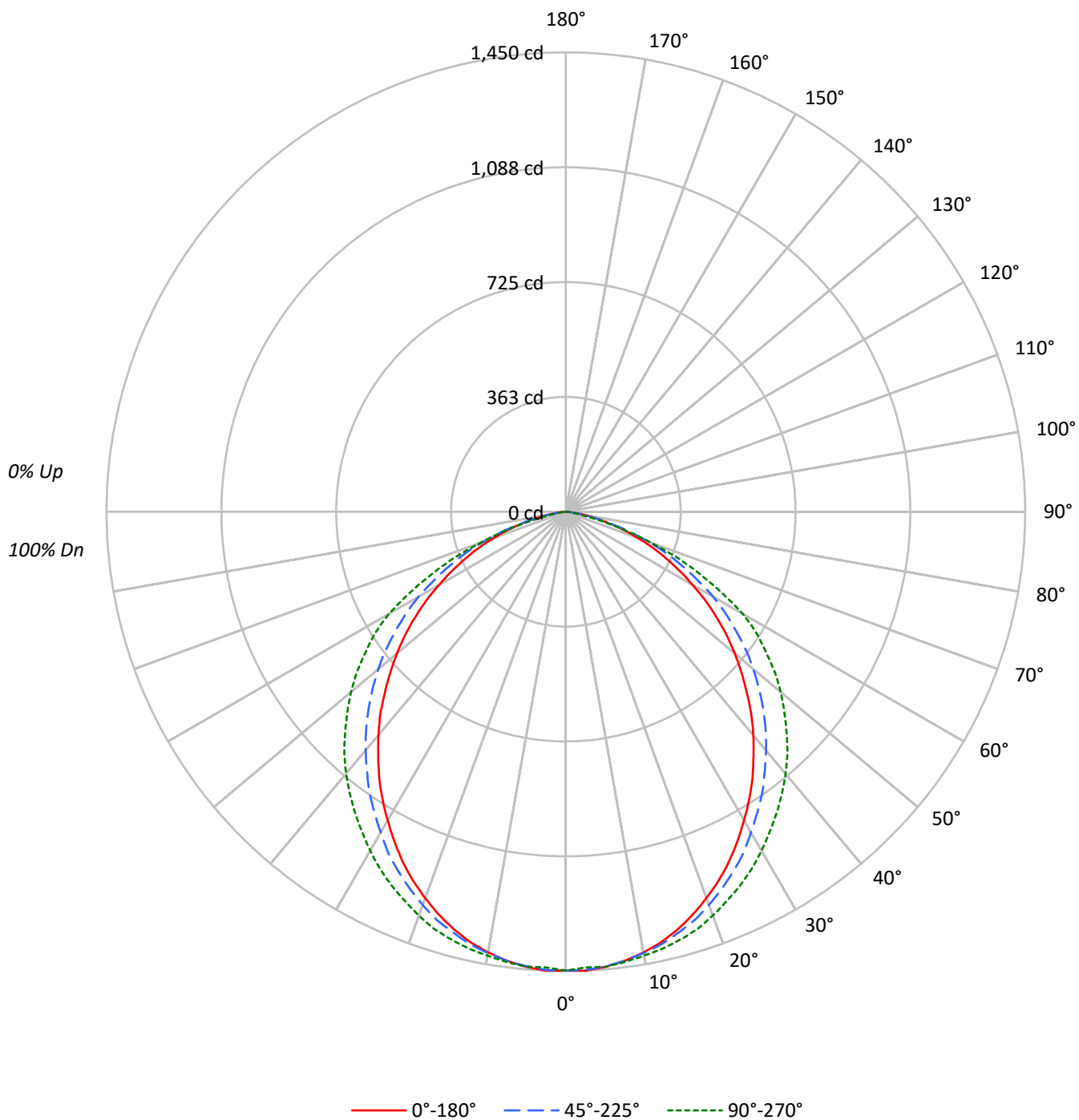
Lumens per Lamp: N/A
Luminaire Lumens: 3645.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1947	1944	1947
10°	1930	1933	1944
15°	1901	1915	1947
20°	1858	1891	1942
25°	1809	1859	1933
30°	1748	1816	1919
35°	1687	1776	1906
40°	1617	1727	1895
45°	1538	1677	1875
50°	1456	1618	1853
55°	1363	1539	1808
60°	1245	1446	1738
65°	1114	1293	1492
70°	951	1090	1139
75°	737	791	639
80°	484	420	226
85°	258	193	128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1875 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.8
10°-20°	388.6	10.7
20°-30°	577.7	15.9
30°-40°	679.3	18.6
40°-50°	685.6	18.8
50°-60°	595.3	16.3
60°-70°	405.1	11.1
70°-80°	157.8	4.3
80°-90°	18.9	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°	1103.0	30.3
0°-40°	1782.3	48.9
0°-60°	3063.1	84.0
0°-90°	3645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1442	1440	1440	1440	1442	137
15°	1364	1367	1375	1390	1398	384
25°	1219	1225	1252	1283	1302	560
35°	1027	1040	1081	1131	1160	641
45°	808	829	881	950	985	624
55°	581	600	656	731	771	519
65°	350	367	406	450	469	348
75°	142	150	152	138	123	154
85°	17	17	12	10	8	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.8	1447.8	1447.8	1447.8	1447.8
2.5°	1449.9	1449.9	1447.8	1441.6	1439.5
5°	1441.6	1439.5	1439.5	1439.5	1441.6
7.5°	1429.1	1429.1	1429.1	1431.2	1433.2
10°	1412.4	1412.4	1414.5	1418.7	1422.8
12.5°	1391.6	1393.7	1397.8	1406.2	1412.4
15°	1364.5	1366.6	1374.9	1389.5	1397.8
17.5°	1333.2	1339.5	1352.0	1368.7	1381.2
20°	1297.8	1304.1	1320.7	1341.6	1356.2
22.5°	1260.3	1266.6	1287.4	1312.4	1329.1
25°	1218.7	1224.9	1252.0	1283.2	1302.0
27.5°	1172.8	1181.2	1214.5	1247.8	1270.7
30°	1124.9	1135.3	1168.7	1210.3	1235.3
32.5°	1077.0	1089.5	1124.9	1172.8	1197.8
35°	1027.0	1039.5	1081.2	1131.2	1160.3
37.5°	972.9	987.4	1031.2	1091.6	1120.8
40°	920.8	935.4	983.3	1047.8	1079.1
42.5°	866.6	883.3	933.3	999.9	1035.3
45°	808.3	829.1	881.2	949.9	985.4
47.5°	752.0	770.8	827.0	897.9	935.4
50°	695.8	716.6	772.9	845.8	885.4
52.5°	639.5	658.3	716.6	789.5	831.2
55°	581.2	600.0	656.2	731.2	770.8
57.5°	522.9	545.8	597.9	670.8	714.5
60°	462.5	483.3	537.5	610.4	645.8
62.5°	406.2	425.0	470.8	539.5	556.2
65°	350.0	366.6	406.2	450.0	468.7
67.5°	297.9	310.4	345.8	375.0	383.3
70°	241.7	254.1	277.1	293.7	289.6
72.5°	191.7	200.0	214.6	212.5	202.1
75°	141.7	150.0	152.1	137.5	122.9
77.5°	100.0	104.2	97.9	77.1	62.5
80°	62.5	64.6	54.2	33.3	29.2
82.5°	35.4	35.4	25.0	20.8	16.7
85°	16.7	16.7	12.5	10.4	8.3
87.5°	6.2	6.2	4.2	4.2	4.2
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	12.92	14.50	13.29	14.81	15.13	14.50	16.08	14.87	16.39	16.71
	3H	14.26	15.67	14.63	16.00	16.36	15.77	17.19	16.15	17.51	17.87
	4H	14.62	15.95	15.02	16.30	16.68	15.96	17.29	16.36	17.64	18.02
	6H	14.79	16.02	15.20	16.38	16.77	15.96	17.19	16.37	17.56	17.95
	8H	14.80	15.97	15.23	16.36	16.76	15.94	17.11	16.36	17.50	17.90
	12H	14.80	15.92	15.23	16.30	16.73	15.91	17.03	16.34	17.41	17.84
4H	2H	13.59	14.91	13.98	15.26	15.64	14.88	16.21	15.28	16.56	16.93
	3H	15.08	16.18	15.49	16.58	16.98	16.32	17.42	16.73	17.82	18.22
	4H	15.53	16.51	15.96	16.93	17.37	16.57	17.56	17.00	17.97	18.41
	6H	15.75	16.61	16.21	17.05	17.51	16.60	17.45	17.05	17.90	18.35
	8H	15.78	16.58	16.24	17.02	17.49	16.57	17.37	17.03	17.81	18.28
	12H	15.78	16.49	16.26	16.97	17.44	16.55	17.26	17.03	17.74	18.21
8H	4H	15.68	16.48	16.15	16.93	17.39	16.65	17.45	17.11	17.90	18.36
	6H	15.94	16.60	16.44	17.09	17.57	16.69	17.34	17.18	17.83	18.31
	8H	15.98	16.57	16.50	17.08	17.57	16.66	17.25	17.17	17.76	18.25
	12H	16.01	16.52	16.51	17.02	17.58	16.64	17.16	17.15	17.66	18.22
12H	4H	15.67	16.38	16.15	16.86	17.33	16.64	17.35	17.12	17.83	18.30
	6H	15.91	16.50	16.43	17.01	17.50	16.66	17.25	17.17	17.76	18.25
	8H	15.98	16.50	16.49	16.99	17.56	16.66	17.18	17.17	17.67	18.23