

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: P1498518

Luminaire Tested: MAE-G-2-120-2STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498518
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-2-120-2STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

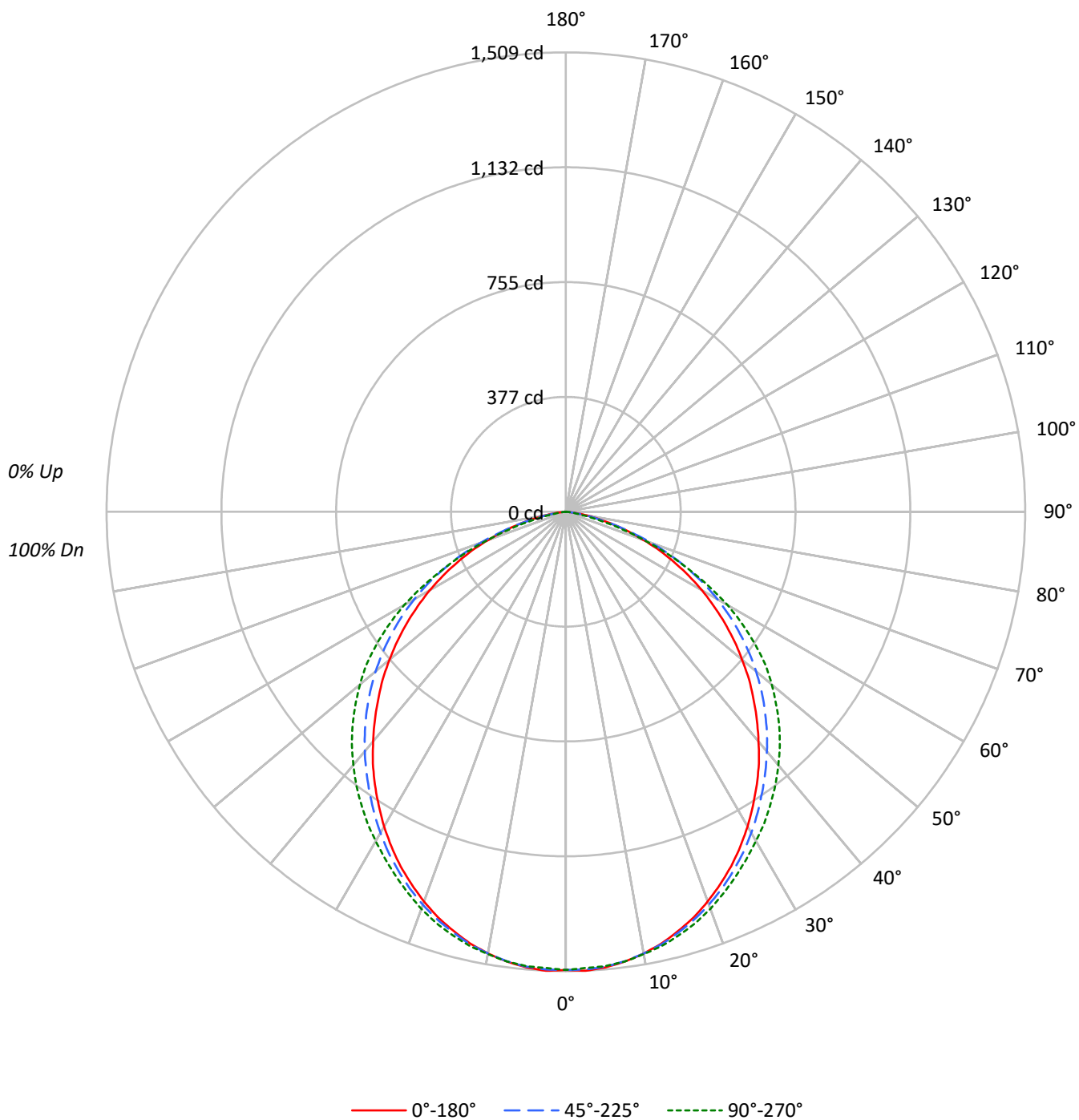
Lumens per Lamp: N/A
Luminaire Lumens: 3799.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4050	4050	4050
5°	4057	4050	4046
10°	4026	4026	4032
15°	3972	3986	4011
20°	3901	3934	3975
25°	3814	3865	3923
30°	3709	3786	3881
35°	3593	3693	3851
40°	3459	3610	3815
45°	3318	3520	3773
50°	3165	3414	3697
55°	2990	3278	3558
60°	2778	3094	3303
65°	2506	2811	2828
70°	2139	2340	2187
75°	1679	1695	1366
80°	1093	872	524
85°	506	330	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.7
10°-20°	403.2	10.6
20°-30°	598.9	15.8
30°-40°	705.4	18.6
40°-50°	714.7	18.8
50°-60°	622.0	16.4
60°-70°	423.9	11.2
70°-80°	169.4	4.5
80°-90°	19.4	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°	1144.2	30.1
0°-40°	1849.6	48.7
0°-60°	3186.3	83.9
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1502	1493	1499	1497	1498	142
15°	1426	1420	1431	1436	1440	402
25°	1285	1285	1302	1312	1321	591
35°	1094	1099	1124	1154	1172	684
45°	872	883	925	968	991	673
55°	637	651	699	742	758	569
65°	394	412	442	442	444	390
75°	162	171	163	140	131	174
85°	16	15	11	10	9	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1509.2	1499.4	1505.0	1504.0	1499.9
5°	1501.9	1493.2	1499.4	1497.4	1497.9
7.5°	1490.2	1482.0	1488.7	1488.1	1489.7
10°	1473.3	1465.2	1473.3	1473.8	1475.4
12.5°	1452.3	1445.2	1454.9	1457.0	1460.6
15°	1425.8	1419.7	1430.9	1436.1	1439.6
17.5°	1397.2	1393.1	1404.3	1411.0	1416.6
20°	1362.4	1360.4	1373.7	1380.3	1388.0
22.5°	1324.6	1323.6	1339.5	1347.6	1355.3
25°	1284.7	1285.3	1301.7	1312.4	1321.1
27.5°	1240.8	1241.8	1261.8	1274.5	1285.3
30°	1193.8	1196.4	1218.3	1235.7	1249.0
32.5°	1144.2	1148.8	1172.3	1196.4	1213.2
35°	1093.6	1098.8	1124.3	1153.9	1172.3
37.5°	1041.5	1047.2	1076.8	1111.6	1131.0
40°	984.8	993.4	1027.7	1066.0	1085.9
42.5°	929.0	938.7	977.1	1019.1	1040.5
45°	871.9	882.6	925.0	968.4	991.4
47.5°	816.6	825.8	871.3	916.8	937.3
50°	755.9	768.1	815.6	861.1	883.1
52.5°	697.6	709.3	757.9	804.3	826.9
55°	637.3	651.1	698.6	742.5	758.4
57.5°	576.5	592.3	638.3	674.5	688.3
60°	516.2	532.0	574.9	603.5	613.8
62.5°	455.3	471.7	509.5	526.9	529.0
65°	393.5	411.9	441.5	442.1	444.1
67.5°	334.8	350.0	371.5	365.4	362.3
70°	271.9	288.7	297.4	285.2	278.0
72.5°	216.2	228.4	226.9	209.0	200.4
75°	161.5	171.2	163.0	140.1	131.4
77.5°	111.9	120.1	103.7	82.2	73.6
80°	70.5	74.1	56.3	39.9	33.8
82.5°	37.8	37.3	24.1	19.9	18.4
85°	16.4	14.8	10.7	9.7	8.7
87.5°	5.6	5.1	4.1	3.6	3.0
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	15.78	17.36	16.14	17.67	17.99	16.74	18.32	17.10	18.63	18.95
	3H	17.20	18.62	17.57	18.94	19.30	17.93	19.35	18.30	19.67	20.03
	4H	17.59	18.92	17.99	19.27	19.65	18.14	19.47	18.54	19.82	20.20
	6H	17.76	18.99	18.18	19.36	19.75	18.16	19.39	18.57	19.76	20.15
	8H	17.78	18.95	18.20	19.34	19.74	18.14	19.31	18.56	19.70	20.10
	12H	17.77	18.89	18.20	19.27	19.70	18.11	19.23	18.54	19.61	20.04
4H	2H	16.44	17.77	16.84	18.12	18.49	17.21	18.54	17.61	18.89	19.27
	3H	18.01	19.12	18.42	19.52	19.92	18.56	19.66	18.97	20.06	20.46
	4H	18.49	19.48	18.92	19.90	20.33	18.83	19.82	19.26	20.24	20.67
	6H	18.73	19.59	19.19	20.03	20.49	18.88	19.74	19.34	20.18	20.64
	8H	18.75	19.56	19.21	20.00	20.47	18.85	19.66	19.32	20.10	20.57
	12H	18.75	19.47	19.23	19.95	20.42	18.83	19.55	19.32	20.03	20.50
8H	4H	18.63	19.43	19.09	19.87	20.34	18.94	19.75	19.41	20.19	20.66
	6H	18.90	19.56	19.40	20.05	20.53	19.00	19.66	19.50	20.15	20.63
	8H	18.94	19.53	19.45	20.04	20.53	18.98	19.57	19.49	20.08	20.57
	12H	18.95	19.47	19.46	19.97	20.53	18.96	19.48	19.47	19.98	20.54
12H	4H	18.61	19.33	19.09	19.80	20.27	18.93	19.65	19.41	20.13	20.60
	6H	18.87	19.46	19.38	19.97	20.46	18.98	19.57	19.49	20.08	20.57
	8H	18.94	19.46	19.44	19.95	20.51	18.98	19.50	19.49	19.99	20.56