

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: P1498176

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498176
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-2-120-1LO-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

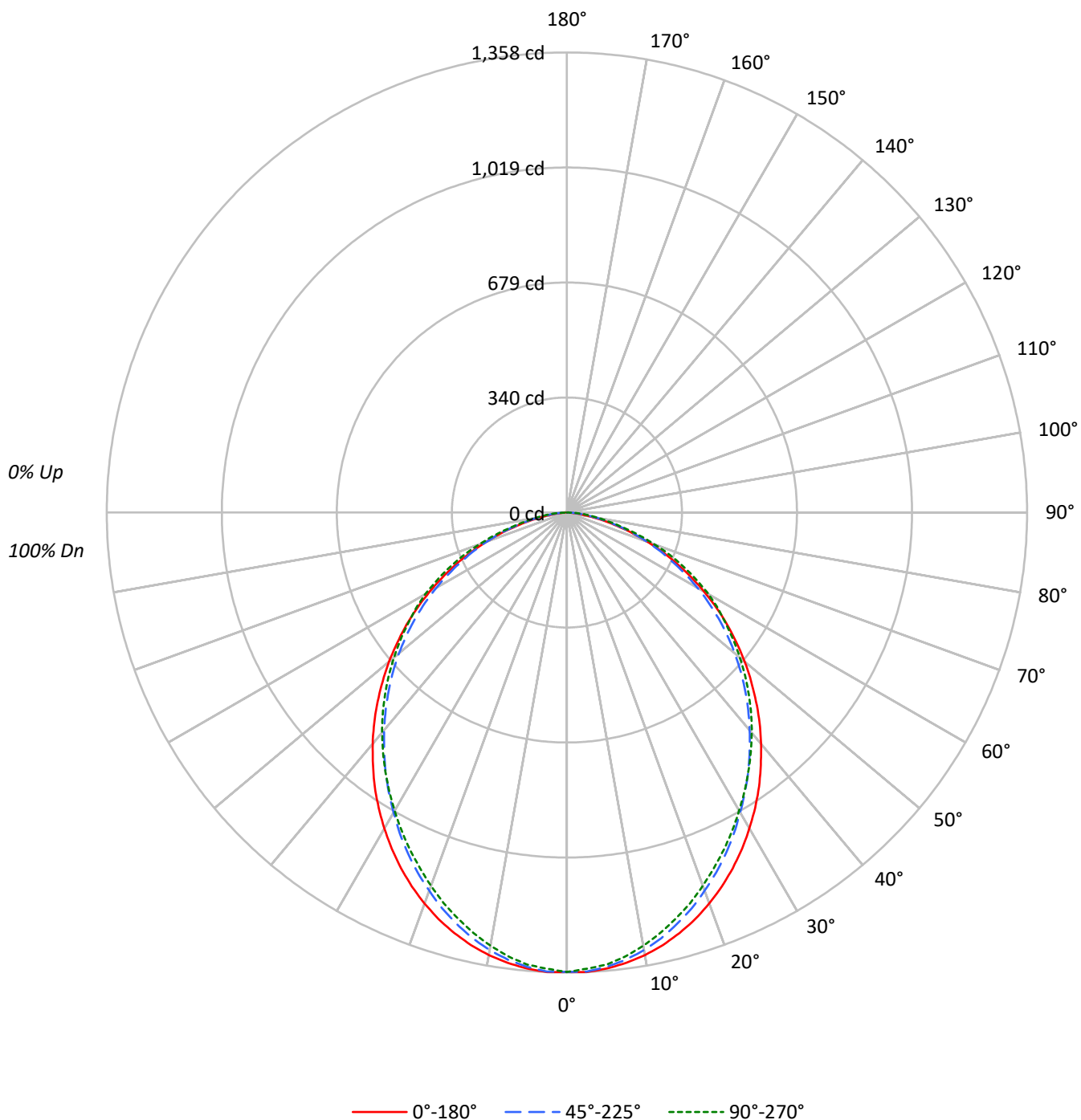
Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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°	3650	3650	3650
5°	3651	3637	3618
10°	3625	3584	3548
15°	3580	3502	3457
20°	3517	3403	3358
25°	3440	3296	3257
30°	3347	3177	3158
35°	3247	3064	3067
40°	3132	2947	2981
45°	3005	2831	2887
50°	2869	2707	2789
55°	2710	2563	2686
60°	2517	2398	2598
65°	2292	2187	2423
70°	1989	1971	2172
75°	1589	1686	1801
80°	1100	1313	1446
85°	618	1010	1321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.9
10°-20°	354.6	10.9
20°-30°	514.7	15.9
30°-40°	591.9	18.3
40°-50°	585.4	18.1
50°-60°	501.0	15.5
60°-70°	353.8	10.9
70°-80°	173.1	5.3
80°-90°	38.2	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°	996.6	30.8
0°-40°	1588.5	49.0
0°-60°	2674.9	82.6
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1352	1350	1346	1336	1340	128
15°	1285	1278	1257	1239	1241	362
25°	1158	1141	1110	1094	1097	533
35°	988	964	933	928	934	617
45°	790	767	744	751	758	609
55°	578	557	546	561	573	516
65°	360	344	344	369	380	356
75°	153	146	162	173	173	165
85°	20	24	33	40	43	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1357.8	1359.0	1356.3	1346.0	1347.8
5°	1351.6	1350.5	1346.3	1336.5	1339.5
7.5°	1340.9	1339.0	1331.5	1319.8	1321.7
10°	1326.6	1322.8	1311.5	1296.9	1298.5
12.5°	1308.1	1302.9	1287.1	1270.2	1271.9
15°	1285.0	1277.5	1257.2	1239.4	1241.0
17.5°	1258.4	1249.7	1225.1	1205.8	1209.3
20°	1228.3	1216.6	1188.3	1169.7	1172.7
22.5°	1195.0	1180.5	1150.6	1132.6	1134.8
25°	1158.5	1140.8	1110.0	1094.3	1097.0
27.5°	1119.0	1099.6	1067.8	1053.3	1057.5
30°	1077.0	1056.0	1022.3	1011.8	1016.4
32.5°	1033.8	1011.5	978.2	970.7	975.4
35°	988.4	964.0	932.8	927.7	933.6
37.5°	939.8	916.4	885.5	885.8	891.3
40°	891.7	867.4	838.9	842.0	848.6
42.5°	841.6	818.1	791.8	796.9	804.7
45°	789.5	766.9	743.8	751.1	758.5
47.5°	737.2	714.8	695.6	704.4	713.4
50°	685.2	663.7	646.6	657.8	666.1
52.5°	630.6	610.1	597.3	609.3	620.1
55°	577.7	556.9	546.4	560.9	572.6
57.5°	523.1	505.8	496.5	514.1	529.0
60°	467.6	450.6	445.6	468.5	482.7
62.5°	413.3	396.6	393.8	421.0	431.6
65°	359.9	343.5	343.5	369.3	380.5
67.5°	306.8	291.9	297.5	322.6	330.3
70°	252.8	239.4	250.5	271.9	276.0
72.5°	202.0	190.9	206.3	221.8	223.1
75°	152.8	145.9	162.2	172.8	173.2
77.5°	109.4	105.8	121.0	128.7	129.5
80°	71.0	72.6	84.7	90.9	93.3
82.5°	41.4	45.2	54.8	64.1	66.8
85°	20.0	24.5	32.7	39.9	42.8
87.5°	6.9	9.9	13.7	15.2	14.8
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	15.30	16.89	15.67	17.20	17.51	15.42	17.00	15.79	17.32	17.63
	3H	16.76	18.18	17.13	18.51	18.87	17.08	18.51	17.46	18.83	19.19
	4H	17.19	18.52	17.58	18.87	19.25	17.60	18.93	17.99	19.28	19.66
	6H	17.41	18.65	17.82	19.01	19.40	17.91	19.14	18.32	19.51	19.90
	8H	17.44	18.62	17.87	19.01	19.41	18.00	19.18	18.43	19.57	19.97
	12H	17.45	18.58	17.88	18.96	19.39	18.07	19.20	18.50	19.58	20.01
4H	2H	15.81	17.15	16.21	17.50	17.88	15.91	17.25	16.31	17.60	17.97
	3H	17.45	18.57	17.86	18.97	19.37	17.78	18.89	18.19	19.29	19.69
	4H	17.97	18.97	18.40	19.39	19.82	18.41	19.41	18.84	19.82	20.26
	6H	18.27	19.15	18.73	19.59	20.05	18.82	19.70	19.28	20.14	20.60
	8H	18.33	19.15	18.79	19.59	20.05	18.95	19.77	19.41	20.21	20.68
	12H	18.35	19.08	18.83	19.56	20.03	19.05	19.79	19.54	20.26	20.73
8H	4H	18.20	19.01	18.66	19.46	19.92	18.59	19.41	19.05	19.85	20.32
	6H	18.57	19.24	19.06	19.73	20.21	19.09	19.77	19.58	20.26	20.73
	8H	18.66	19.26	19.17	19.77	20.26	19.28	19.88	19.79	20.39	20.88
	12H	18.71	19.24	19.22	19.74	20.30	19.44	19.98	19.95	20.47	21.03
12H	4H	18.21	18.94	18.69	19.42	19.89	18.59	19.32	19.07	19.80	20.27
	6H	18.59	19.20	19.10	19.70	20.19	19.10	19.70	19.61	20.21	20.70
	8H	18.72	19.25	19.23	19.75	20.31	19.33	19.86	19.83	20.35	20.92