

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: P1498188

Luminaire Tested: MAE-G-2-120-1LO-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498188
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-50-90
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

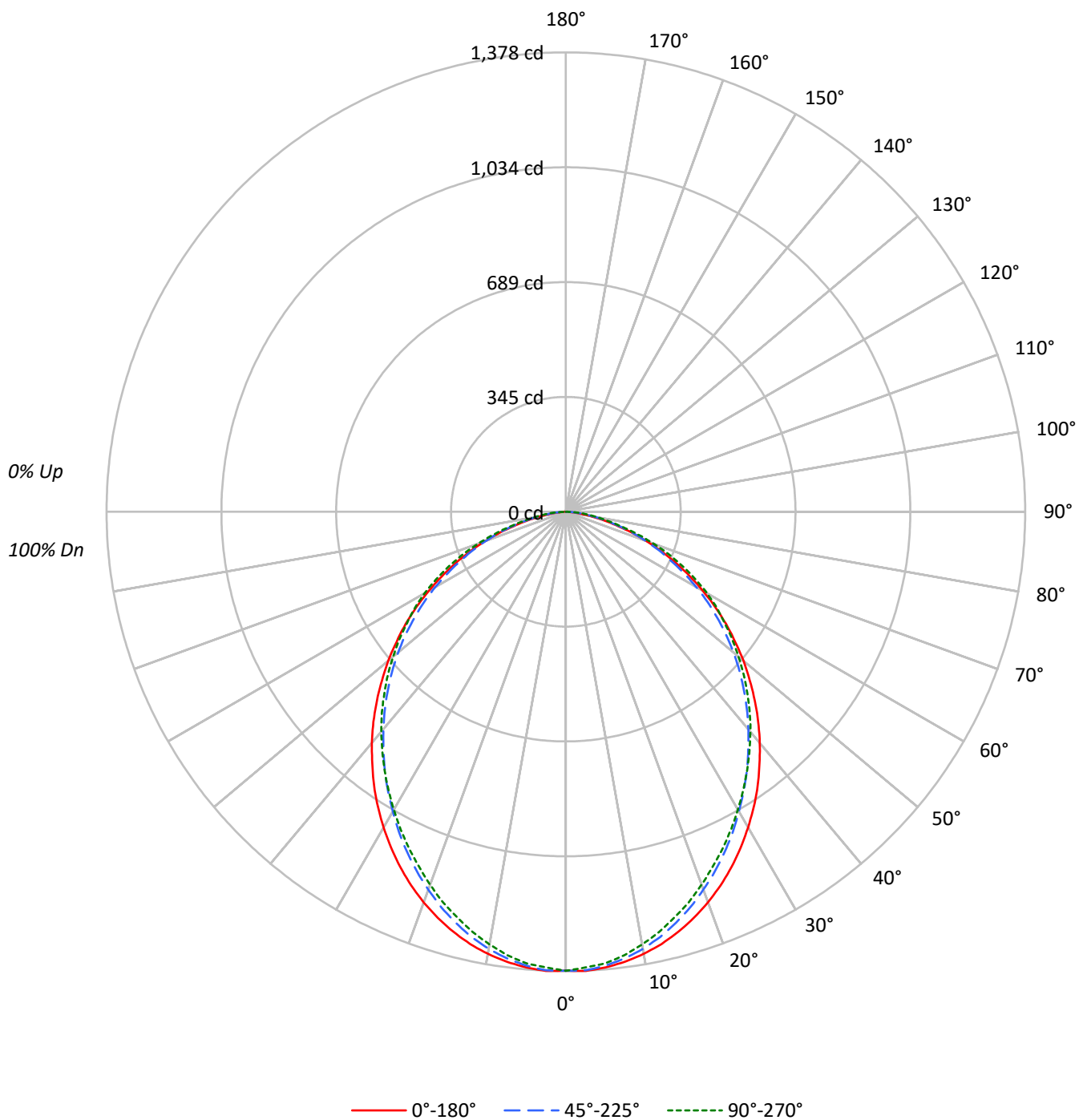
Lumens per Lamp: N/A
Luminaire Lumens: 3289.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3705	3705	3705
5°	3706	3692	3673
10°	3680	3638	3602
15°	3634	3556	3509
20°	3570	3454	3409
25°	3492	3346	3306
30°	3397	3225	3206
35°	3296	3111	3113
40°	3180	2992	3026
45°	3050	2873	2930
50°	2912	2748	2831
55°	2751	2602	2727
60°	2555	2434	2637
65°	2326	2220	2460
70°	2020	2001	2205
75°	1613	1711	1829
80°	1117	1334	1469
85°	624	1025	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.9
10°-20°	360.0	10.9
20°-30°	522.5	15.9
30°-40°	600.8	18.3
40°-50°	594.3	18.1
50°-60°	508.6	15.5
60°-70°	359.2	10.9
70°-80°	175.7	5.3
80°-90°	38.8	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°	1011.7	30.8
0°-40°	1612.5	49.0
0°-60°	2715.4	82.6
0°-90°	3289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1372	1371	1367	1357	1360	130
15°	1304	1297	1276	1258	1260	368
25°	1176	1158	1127	1111	1114	541
35°	1003	979	947	942	948	627
45°	802	778	755	762	770	618
55°	586	565	555	569	581	524
65°	365	349	349	375	386	361
75°	155	148	165	175	176	167
85°	20	25	33	40	43	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1378.4	1379.6	1376.8	1366.3	1368.2
5°	1372.1	1370.9	1366.7	1356.7	1359.8
7.5°	1361.2	1359.2	1351.6	1339.7	1341.7
10°	1346.7	1342.8	1331.4	1316.5	1318.1
12.5°	1327.9	1322.6	1306.5	1289.4	1291.2
15°	1304.3	1296.7	1276.3	1258.1	1259.7
17.5°	1277.3	1268.6	1243.6	1224.0	1227.7
20°	1246.8	1235.0	1206.2	1187.5	1190.5
22.5°	1213.1	1198.4	1168.0	1149.8	1151.9
25°	1176.0	1158.0	1126.8	1110.9	1113.6
27.5°	1136.0	1116.2	1083.9	1069.2	1073.6
30°	1093.4	1072.0	1037.9	1027.1	1031.8
32.5°	1049.4	1026.8	993.0	985.4	990.1
35°	1003.4	978.6	946.9	941.7	947.7
37.5°	954.0	930.3	898.8	899.3	904.7
40°	905.2	880.5	851.6	854.7	861.4
42.5°	854.3	830.5	803.8	809.0	816.9
45°	801.5	778.5	755.0	762.5	770.0
47.5°	748.3	725.7	706.1	715.1	724.2
50°	695.6	673.7	656.4	667.8	676.2
52.5°	640.1	619.3	606.3	618.4	629.5
55°	586.4	565.4	554.6	569.4	581.3
57.5°	531.0	513.4	504.0	521.9	536.9
60°	474.7	457.4	452.3	475.6	490.0
62.5°	419.5	402.7	399.7	427.4	438.1
65°	365.3	348.7	348.6	374.9	386.3
67.5°	311.4	296.3	302.0	327.5	335.3
70°	256.7	243.1	254.3	276.0	280.2
72.5°	205.1	193.8	209.4	225.1	226.5
75°	155.1	148.0	164.6	175.4	175.9
77.5°	111.1	107.4	122.9	130.6	131.5
80°	72.1	73.7	86.1	92.2	94.8
82.5°	42.1	45.9	55.7	65.2	67.7
85°	20.2	24.8	33.2	40.4	43.4
87.5°	7.0	10.0	13.9	15.4	15.0
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	15.35	16.94	15.72	17.25	17.57	15.47	17.06	15.84	17.37	17.68
	3H	16.81	18.23	17.18	18.56	18.92	17.13	18.56	17.51	18.88	19.25
	4H	17.24	18.58	17.64	18.92	19.30	17.65	18.99	18.05	19.34	19.71
	6H	17.46	18.70	17.87	19.06	19.45	17.96	19.20	18.37	19.56	19.95
	8H	17.49	18.68	17.92	19.06	19.46	18.05	19.23	18.48	19.62	20.02
	12H	17.50	18.63	17.93	19.01	19.44	18.12	19.25	18.55	19.63	20.06
4H	2H	15.86	17.20	16.26	17.55	17.93	15.96	17.30	16.36	17.65	18.02
	3H	17.51	18.62	17.92	19.02	19.42	17.83	18.94	18.24	19.34	19.74
	4H	18.02	19.02	18.45	19.44	19.88	18.46	19.46	18.89	19.88	20.31
	6H	18.32	19.20	18.78	19.64	20.10	18.87	19.75	19.33	20.19	20.65
	8H	18.38	19.20	18.84	19.64	20.11	19.00	19.82	19.47	20.26	20.73
	12H	18.40	19.14	18.88	19.61	20.08	19.11	19.84	19.59	20.32	20.79
8H	4H	18.25	19.06	18.71	19.51	19.97	18.64	19.46	19.10	19.90	20.37
	6H	18.62	19.29	19.11	19.78	20.26	19.14	19.82	19.64	20.31	20.78
	8H	18.71	19.31	19.22	19.82	20.31	19.33	19.93	19.84	20.44	20.93
	12H	18.76	19.30	19.27	19.79	20.35	19.49	20.03	20.00	20.52	21.08
12H	4H	18.26	18.99	18.74	19.47	19.94	18.64	19.37	19.12	19.85	20.32
	6H	18.64	19.25	19.15	19.76	20.24	19.15	19.76	19.66	20.26	20.75
	8H	18.77	19.31	19.28	19.80	20.36	19.38	19.91	19.89	20.40	20.97