

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: P1498173

Luminaire Tested: MAE-G-2-120-1LO-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498173
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-30
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

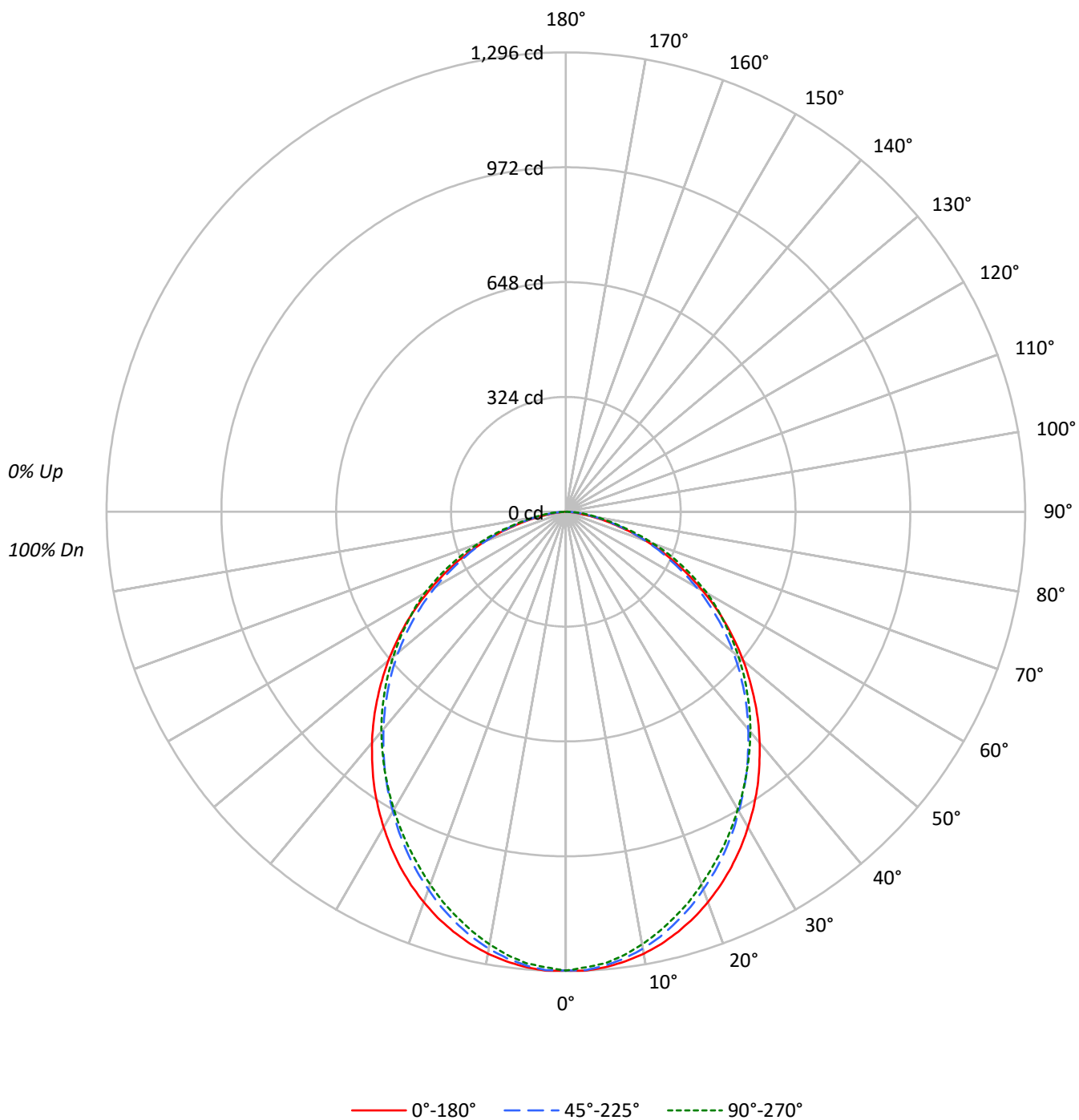
Lumens per Lamp: N/A
Luminaire Lumens: 3092.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3483	3483	3483
5°	3484	3471	3453
10°	3459	3420	3386
15°	3416	3343	3299
20°	3357	3247	3205
25°	3283	3145	3108
30°	3194	3031	3014
35°	3099	2924	2927
40°	2989	2812	2845
45°	2868	2701	2755
50°	2737	2583	2661
55°	2587	2446	2564
60°	2401	2289	2479
65°	2187	2087	2313
70°	1898	1880	2072
75°	1517	1609	1720
80°	1051	1254	1381
85°	590	963	1260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.9
10°-20°	338.4	10.9
20°-30°	491.2	15.9
30°-40°	564.8	18.3
40°-50°	558.7	18.1
50°-60°	478.1	15.5
60°-70°	337.6	10.9
70°-80°	165.2	5.3
80°-90°	36.4	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°	951.1	30.8
0°-40°	1515.9	49.0
0°-60°	2552.7	82.6
0°-90°	3092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1290	1289	1285	1276	1278	122
15°	1226	1219	1200	1183	1184	346
25°	1106	1089	1059	1044	1047	509
35°	943	920	890	885	891	589
45°	754	732	710	717	724	581
55°	551	532	521	535	546	492
65°	343	328	328	352	363	340
75°	146	139	155	165	165	157
85°	19	23	31	38	41	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1295.9	1297.0	1294.4	1284.5	1286.3
5°	1289.9	1288.9	1284.9	1275.5	1278.4
7.5°	1279.7	1277.8	1270.7	1259.4	1261.4
10°	1266.0	1262.4	1251.7	1237.7	1239.2
12.5°	1248.4	1243.4	1228.2	1212.3	1213.8
15°	1226.2	1219.2	1199.8	1182.8	1184.3
17.5°	1200.9	1192.6	1169.2	1150.7	1154.1
20°	1172.2	1161.0	1134.0	1116.3	1119.2
22.5°	1140.4	1126.5	1098.1	1080.9	1082.9
25°	1105.6	1088.7	1059.3	1044.3	1046.8
27.5°	1067.9	1049.4	1019.0	1005.2	1009.2
30°	1027.8	1007.8	975.6	965.6	970.0
32.5°	986.6	965.3	933.5	926.3	930.7
35°	943.3	920.1	890.2	885.3	890.9
37.5°	896.9	874.5	844.9	845.3	850.5
40°	851.0	827.8	800.5	803.5	809.9
42.5°	803.2	780.8	755.7	760.5	768.0
45°	753.5	731.9	709.7	716.8	723.8
47.5°	703.5	682.2	663.8	672.3	680.8
50°	653.9	633.4	617.0	627.8	635.6
52.5°	601.8	582.2	570.0	581.4	591.8
55°	551.4	531.5	521.3	535.3	546.5
57.5°	499.2	482.7	473.8	490.6	504.7
60°	446.2	430.0	425.3	447.1	460.7
62.5°	394.5	378.6	375.7	401.8	411.9
65°	343.4	327.8	327.8	352.4	363.2
67.5°	292.8	278.5	283.8	307.8	315.1
70°	241.2	228.6	239.0	259.5	263.4
72.5°	192.9	182.2	196.9	211.6	212.9
75°	145.9	139.1	154.8	164.9	165.4
77.5°	104.4	101.0	115.5	122.8	123.6
80°	67.8	69.3	80.9	86.7	89.1
82.5°	39.6	43.2	52.3	61.3	63.7
85°	19.1	23.4	31.2	38.0	40.8
87.5°	6.6	9.5	13.0	14.5	14.1
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	15.14	16.72	15.51	17.04	17.35	15.26	16.84	15.62	17.15	17.47
	3H	16.59	18.02	16.97	18.35	18.71	16.92	18.34	17.29	18.67	19.03
	4H	17.02	18.36	17.42	18.71	19.09	17.43	18.77	17.83	19.12	19.50
	6H	17.25	18.48	17.66	18.85	19.24	17.74	18.98	18.16	19.35	19.74
	8H	17.28	18.46	17.71	18.85	19.25	17.84	19.02	18.26	19.41	19.81
	12H	17.29	18.42	17.72	18.80	19.23	17.90	19.03	18.33	19.42	19.84
4H	2H	15.65	16.99	16.05	17.34	17.71	15.75	17.08	16.15	17.43	17.81
	3H	17.29	18.41	17.70	18.80	19.20	17.61	18.73	18.02	19.13	19.53
	4H	17.81	18.81	18.24	19.22	19.66	18.24	19.25	18.67	19.66	20.10
	6H	18.11	18.98	18.56	19.43	19.88	18.66	19.53	19.11	19.97	20.43
	8H	18.17	18.98	18.63	19.43	19.89	18.79	19.61	19.25	20.05	20.52
	12H	18.19	18.92	18.67	19.40	19.87	18.89	19.62	19.37	20.10	20.57
8H	4H	18.03	18.85	18.49	19.29	19.76	18.43	19.24	18.89	19.69	20.15
	6H	18.40	19.08	18.90	19.57	20.05	18.93	19.60	19.42	20.09	20.57
	8H	18.49	19.10	19.01	19.61	20.09	19.11	19.72	19.62	20.23	20.71
	12H	18.55	19.08	19.06	19.57	20.14	19.28	19.81	19.79	20.30	20.87
12H	4H	18.05	18.78	18.53	19.25	19.72	18.43	19.16	18.91	19.64	20.11
	6H	18.43	19.03	18.94	19.54	20.03	18.93	19.54	19.44	20.05	20.54
	8H	18.56	19.09	19.07	19.58	20.15	19.16	19.70	19.67	20.19	20.75