

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: P1498698

Luminaire Tested: MAE-G-2-120-3LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

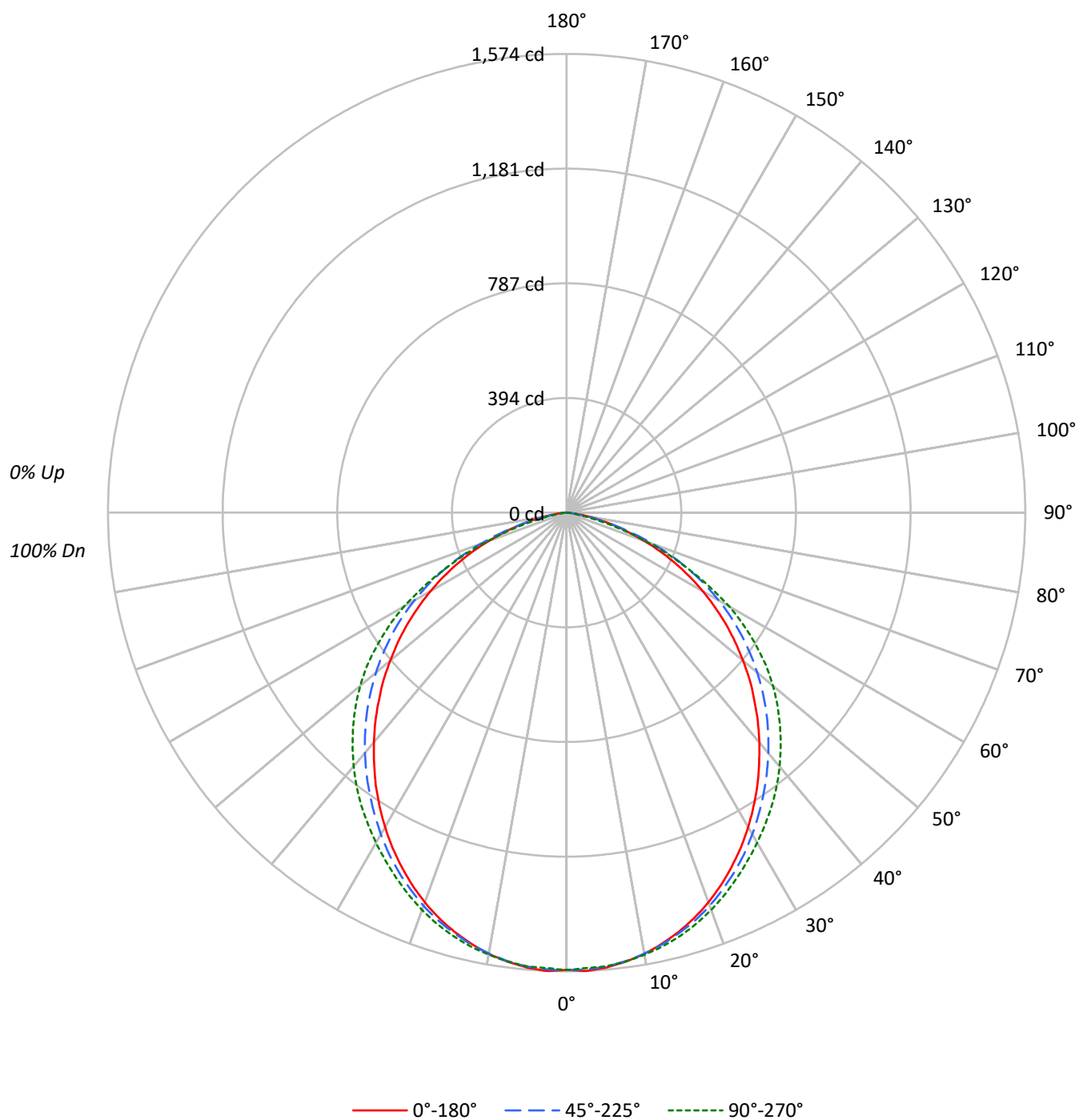
Lumens per Lamp: N/A
Luminaire Lumens: 3977.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	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	57	69	62	57		67	61	56		65
5	78	65	56	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	44	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	36	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°	4222	4222	4222
5°	4232	4223	4221
10°	4200	4198	4208
15°	4147	4160	4191
20°	4075	4112	4155
25°	3980	4044	4107
30°	3872	3960	4064
35°	3751	3870	4033
40°	3614	3783	3993
45°	3467	3689	3942
50°	3306	3575	3872
55°	3129	3437	3723
60°	2904	3247	3474
65°	2622	2961	2975
70°	2238	2486	2312
75°	1757	1814	1422
80°	1147	933	550
85°	550	367	293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.7
10°-20°	420.8	10.6
20°-30°	625.8	15.7
30°-40°	737.5	18.5
40°-50°	747.7	18.8
50°-60°	651.6	16.4
60°-70°	445.6	11.2
70°-80°	179.0	4.5
80°-90°	20.8	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°	1194.9	30.0
0°-40°	1932.3	48.6
0°-60°	3331.6	83.8
0°-90°	3977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1567	1557	1563	1562	1563	149
15°	1488	1482	1493	1500	1504	419
25°	1340	1341	1362	1372	1383	617
35°	1142	1147	1178	1207	1228	713
45°	911	923	969	1013	1036	703
55°	667	681	732	779	794	595
65°	412	430	465	469	467	407
75°	169	180	174	150	137	182
85°	18	16	12	10	10	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.1	1569.1	1569.1	1569.1	1569.1
2.5°	1574.2	1563.7	1569.1	1568.0	1564.0
5°	1566.6	1557.1	1563.3	1561.5	1562.6
7.5°	1554.2	1545.6	1552.1	1551.7	1553.5
10°	1537.2	1528.5	1536.5	1537.9	1540.1
12.5°	1514.7	1507.5	1517.3	1520.1	1524.5
15°	1488.5	1482.1	1493.3	1499.5	1504.2
17.5°	1458.1	1452.6	1467.1	1473.0	1479.5
20°	1422.9	1418.9	1435.9	1441.4	1450.9
22.5°	1383.7	1381.6	1399.3	1407.6	1418.5
25°	1340.5	1340.9	1361.9	1371.8	1383.3
27.5°	1295.2	1295.9	1319.9	1333.6	1346.0
30°	1246.2	1248.4	1274.5	1291.6	1307.9
32.5°	1194.3	1198.7	1227.0	1250.2	1268.3
35°	1141.7	1146.8	1178.1	1207.0	1227.7
37.5°	1084.8	1093.1	1128.3	1162.8	1184.2
40°	1028.9	1037.2	1076.8	1114.9	1136.7
42.5°	971.2	981.8	1023.9	1066.3	1087.3
45°	911.0	923.3	969.4	1012.9	1035.8
47.5°	853.3	864.2	912.8	958.2	981.8
50°	789.8	803.6	854.0	901.6	924.8
52.5°	729.2	741.9	793.8	842.5	863.5
55°	666.9	681.0	732.5	778.6	793.5
57.5°	602.9	620.0	669.7	708.2	722.3
60°	539.5	556.5	603.3	634.9	645.4
62.5°	476.3	494.5	535.5	556.5	556.5
65°	411.8	430.3	465.1	468.7	467.3
67.5°	347.2	365.7	392.2	385.6	381.3
70°	284.4	300.4	316.0	304.0	293.9
72.5°	223.5	238.7	241.3	223.9	211.1
75°	169.0	180.3	174.5	149.9	136.8
77.5°	117.9	124.5	112.1	87.1	76.6
80°	74.0	76.9	60.2	42.4	35.5
82.5°	39.9	40.3	26.1	21.4	20.0
85°	17.8	16.0	11.9	10.5	9.5
87.5°	6.2	5.5	4.3	4.0	3.3
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	15.93	17.51	16.30	17.83	18.14	16.91	18.50	17.28	18.81	19.13
	3H	17.34	18.76	17.72	19.09	19.45	18.12	19.54	18.50	19.87	20.23
	4H	17.73	19.07	18.13	19.42	19.79	18.33	19.67	18.73	20.02	20.39
	6H	17.91	19.14	18.32	19.51	19.90	18.35	19.58	18.76	19.95	20.34
	8H	17.92	19.10	18.35	19.49	19.89	18.33	19.50	18.75	19.89	20.29
	12H	17.91	19.04	18.34	19.42	19.85	18.30	19.43	18.73	19.81	20.24
4H	2H	16.60	17.94	17.00	18.28	18.66	17.39	18.73	17.79	19.07	19.45
	3H	18.17	19.28	18.58	19.67	20.07	18.76	19.87	19.17	20.27	20.67
	4H	18.65	19.64	19.08	20.05	20.49	19.03	20.03	19.47	20.44	20.88
	6H	18.89	19.75	19.34	20.19	20.65	19.09	19.95	19.54	20.39	20.85
	8H	18.91	19.71	19.37	20.16	20.62	19.06	19.87	19.52	20.31	20.78
	12H	18.91	19.63	19.39	20.11	20.58	19.04	19.76	19.52	20.24	20.71
8H	4H	18.79	19.60	19.25	20.04	20.51	19.15	19.96	19.61	20.40	20.87
	6H	19.07	19.73	19.56	20.22	20.70	19.21	19.87	19.71	20.36	20.84
	8H	19.11	19.70	19.62	20.21	20.70	19.19	19.78	19.70	20.29	20.78
	12H	19.12	19.64	19.63	20.13	20.70	19.18	19.70	19.68	20.19	20.75
12H	4H	18.77	19.49	19.26	19.97	20.44	19.14	19.86	19.62	20.34	20.81
	6H	19.04	19.63	19.55	20.14	20.63	19.19	19.78	19.70	20.29	20.78
	8H	19.10	19.62	19.61	20.12	20.68	19.19	19.71	19.70	20.20	20.77