

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: P1498266

Luminaire Tested: MAE-G-2-120-1STD-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498266
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-2-120-1STD-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

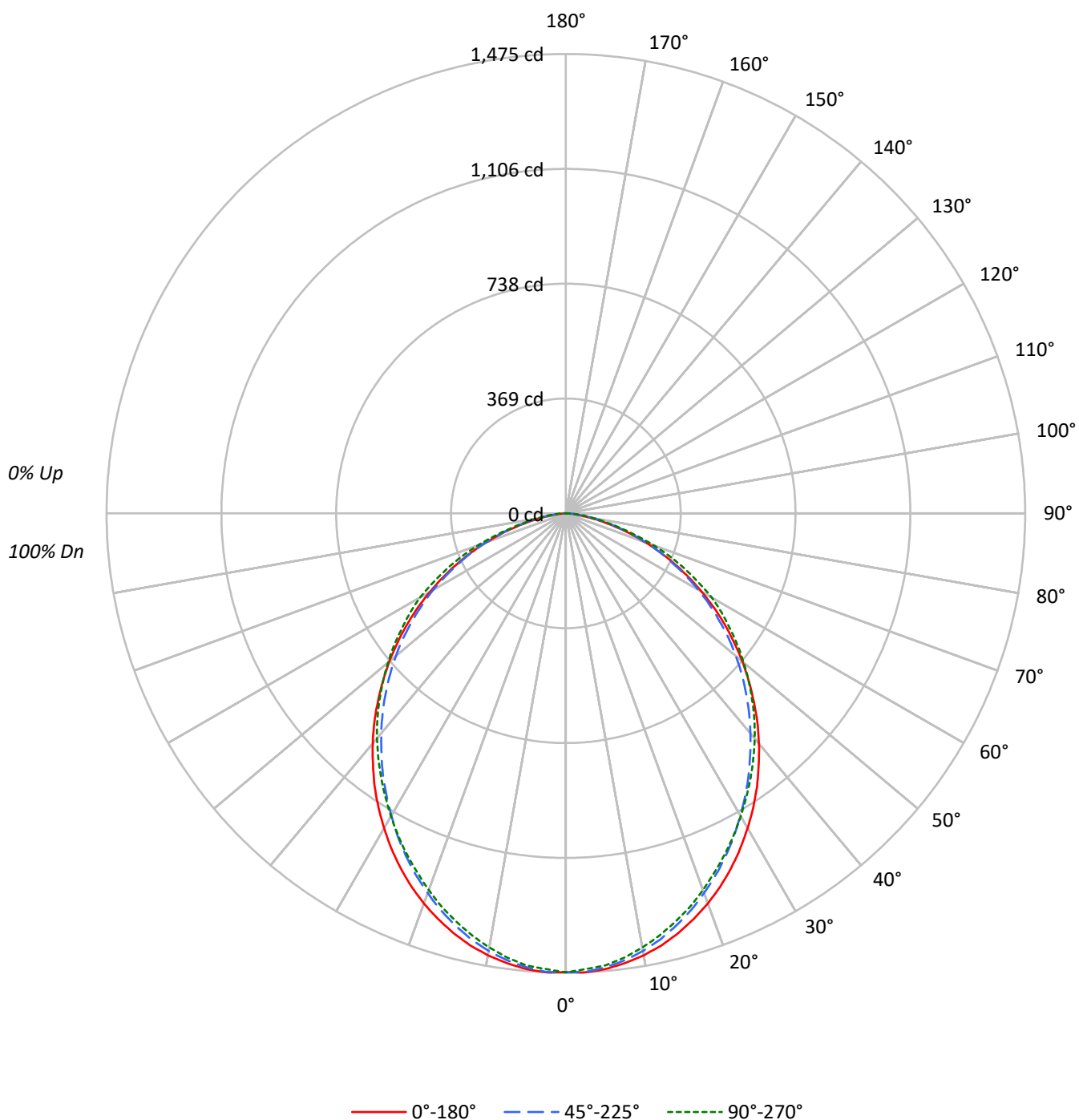
Lumens per Lamp: N/A
Luminaire Lumens: 3543.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		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°	3965	3965	3965
5°	3966	3952	3935
10°	3937	3898	3867
15°	3886	3816	3781
20°	3817	3715	3686
25°	3730	3605	3586
30°	3626	3481	3489
35°	3516	3364	3398
40°	3390	3240	3314
45°	3248	3116	3218
50°	3098	2984	3120
55°	2924	2827	3012
60°	2709	2647	2909
65°	2462	2407	2682
70°	2133	2150	2354
75°	1699	1805	1878
80°	1172	1358	1437
85°	651	1013	1294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3248 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.9
10°-20°	386.5	10.9
20°-30°	562.7	15.9
30°-40°	648.9	18.3
40°-50°	643.5	18.2
50°-60°	551.8	15.6
60°-70°	387.8	10.9
70°-80°	184.8	5.2
80°-90°	38.8	1.1
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°	1087.5	30.7
0°-40°	1736.4	49.0
0°-60°	2931.7	82.7
0°-90°	3543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1468	1467	1463	1454	1457	139
15°	1395	1388	1370	1355	1357	393
25°	1256	1240	1214	1203	1208	578
35°	1070	1049	1024	1025	1034	669
45°	854	834	819	834	846	658
55°	623	606	602	626	642	556
65°	387	373	378	408	421	383
75°	163	158	174	182	181	176
85°	21	25	33	39	42	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.3	1476.4	1473.5	1462.9	1464.4
5°	1468.3	1467.0	1463.0	1453.6	1456.8
7.5°	1456.5	1454.6	1447.5	1436.5	1438.7
10°	1440.8	1437.2	1426.7	1413.2	1415.3
12.5°	1420.5	1415.8	1401.2	1386.2	1388.6
15°	1395.0	1388.3	1369.9	1354.7	1357.3
17.5°	1365.8	1358.4	1336.4	1320.1	1325.0
20°	1332.8	1322.4	1297.4	1282.3	1287.0
22.5°	1296.4	1283.2	1257.4	1243.3	1247.4
25°	1256.4	1240.2	1214.2	1203.1	1207.9
27.5°	1213.1	1195.5	1169.3	1159.6	1166.5
30°	1167.0	1148.3	1120.2	1115.3	1122.8
32.5°	1119.9	1100.1	1072.7	1071.5	1078.9
35°	1070.4	1048.7	1024.0	1025.3	1034.5
37.5°	1017.3	996.7	972.5	980.4	989.2
40°	964.9	943.5	922.2	933.2	943.4
42.5°	910.4	890.1	871.1	884.2	896.1
45°	853.5	834.5	818.8	834.4	845.7
47.5°	796.5	777.6	766.2	783.4	796.5
50°	740.0	722.1	712.7	732.4	745.2
52.5°	680.9	663.6	658.7	679.1	694.7
55°	623.3	605.7	602.5	625.8	641.9
57.5°	563.9	550.2	547.8	573.6	593.2
60°	503.4	489.8	491.8	522.6	540.6
62.5°	444.7	431.2	434.0	468.6	480.7
65°	386.7	373.1	378.0	408.0	421.2
67.5°	329.6	316.9	326.6	354.2	362.6
70°	271.1	260.0	273.3	295.8	299.2
72.5°	216.6	206.9	223.4	237.9	237.9
75°	163.4	157.7	173.6	181.9	180.6
77.5°	116.8	113.9	127.6	132.4	131.4
80°	75.6	77.3	87.6	90.8	92.7
82.5°	44.0	47.6	55.4	63.9	65.7
85°	21.1	25.4	32.8	39.3	41.9
87.5°	7.3	10.2	13.5	15.0	14.6
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	15.57	17.15	15.93	17.46	17.78	15.88	17.46	16.24	17.77	18.09
	3H	17.00	18.43	17.38	18.76	19.12	17.48	18.90	17.86	19.23	19.59
	4H	17.43	18.76	17.83	19.11	19.49	17.95	19.28	18.34	19.63	20.01
	6H	17.64	18.88	18.05	19.24	19.64	18.20	19.44	18.61	19.80	20.19
	8H	17.67	18.85	18.10	19.24	19.64	18.27	19.45	18.70	19.84	20.24
	12H	17.68	18.81	18.11	19.19	19.62	18.32	19.45	18.75	19.83	20.26
4H	2H	16.09	17.43	16.49	17.78	18.16	16.35	17.69	16.75	18.04	18.41
	3H	17.72	18.83	18.13	19.23	19.63	18.15	19.27	18.56	19.66	20.07
	4H	18.22	19.23	18.65	19.64	20.08	18.73	19.73	19.16	20.14	20.58
	6H	18.52	19.39	18.97	19.83	20.29	19.08	19.95	19.53	20.39	20.85
	8H	18.57	19.38	19.03	19.83	20.29	19.18	19.99	19.64	20.44	20.90
	12H	18.59	19.32	19.07	19.80	20.27	19.26	19.99	19.74	20.47	20.94
8H	4H	18.44	19.26	18.90	19.70	20.17	18.90	19.71	19.36	20.16	20.62
	6H	18.80	19.47	19.29	19.96	20.44	19.32	19.99	19.82	20.48	20.96
	8H	18.88	19.49	19.39	19.99	20.48	19.47	20.07	19.98	20.58	21.07
	12H	18.93	19.46	19.44	19.96	20.52	19.61	20.14	20.11	20.63	21.19
12H	4H	18.45	19.18	18.93	19.66	20.13	18.90	19.62	19.38	20.10	20.57
	6H	18.81	19.42	19.32	19.93	20.41	19.32	19.93	19.83	20.44	20.92
	8H	18.94	19.47	19.44	19.96	20.52	19.52	20.05	20.02	20.54	21.10