

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: P1498074

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498074
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-2-120-1HI-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

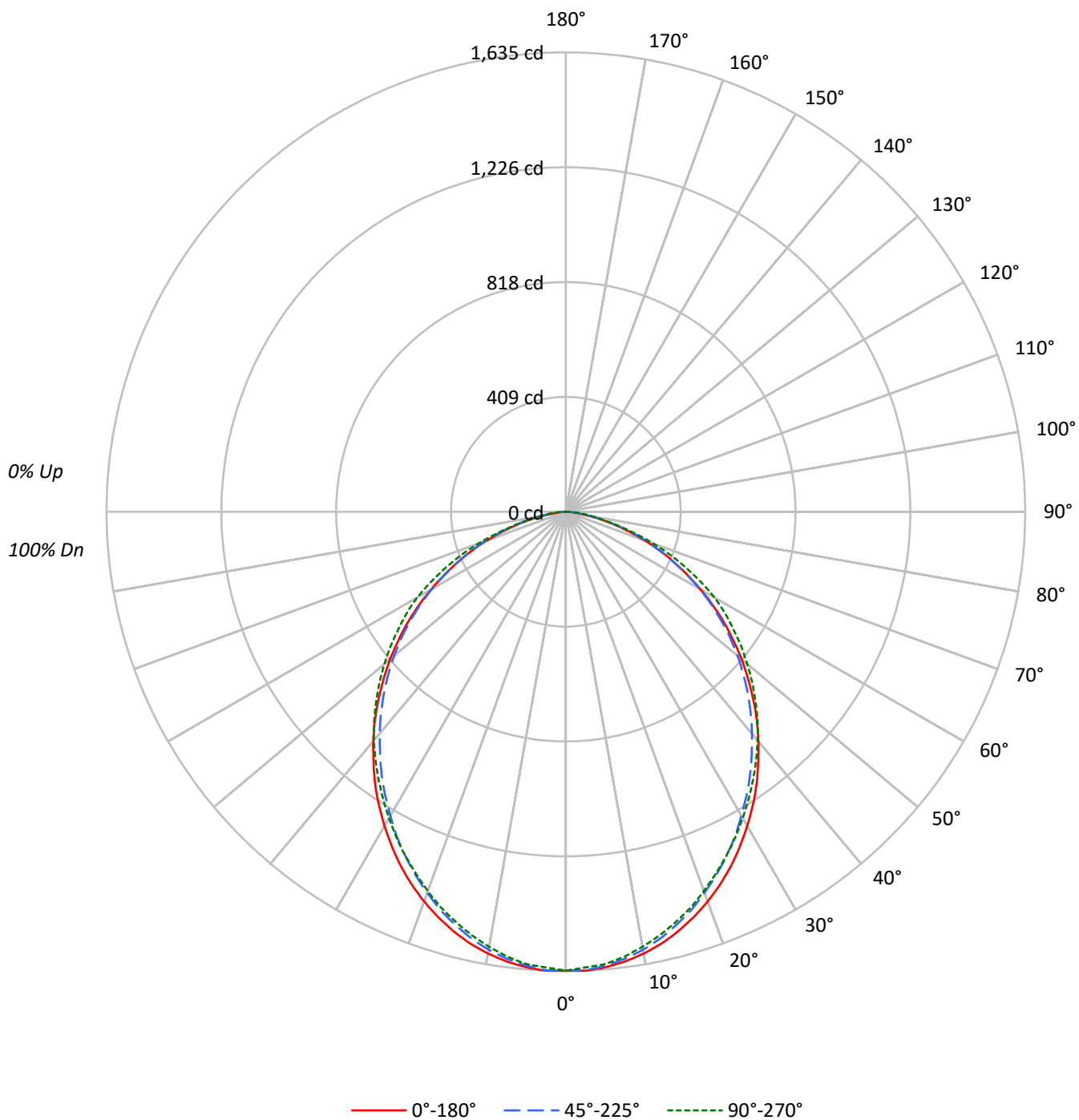
Lumens per Lamp: N/A
Luminaire Lumens: 3945.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	80	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		67	61	56		64
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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4395	4395	4395
5°	4396	4381	4365
10°	4363	4325	4296
15°	4306	4239	4211
20°	4227	4133	4114
25°	4130	4015	4013
30°	4012	3881	3912
35°	3889	3756	3819
40°	3746	3620	3732
45°	3588	3486	3632
50°	3419	3340	3528
55°	3225	3166	3410
60°	2984	2966	3293
65°	2708	2692	3011
70°	2343	2391	2605
75°	1861	1980	2018
80°	1277	1450	1486
85°	710	1056	1321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3632 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.9
10°-20°	429.3	10.9
20°-30°	626.4	15.9
30°-40°	723.8	18.3
40°-50°	719.1	18.2
50°-60°	617.4	15.7
60°-70°	432.5	11.0
70°-80°	202.2	5.1
80°-90°	40.9	1.0
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°	1209.2	30.7
0°-40°	1933.0	49.0
0°-60°	3269.5	82.9
0°-90°	3945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1627	1626	1622	1612	1616	154
15°	1546	1539	1522	1508	1511	435
25°	1391	1375	1352	1345	1352	640
35°	1184	1163	1143	1150	1162	739
45°	943	926	916	939	954	727
55°	687	672	675	706	727	614
65°	425	414	423	458	473	421
75°	179	174	190	197	194	193
85°	23	27	34	40	43	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.2	1633.2	1633.2	1633.2	1633.2
2.5°	1635.2	1636.3	1633.2	1621.9	1623.1
5°	1627.3	1625.7	1621.7	1612.3	1615.8
7.5°	1614.1	1612.2	1605.1	1594.4	1596.8
10°	1596.6	1593.0	1582.7	1569.7	1572.2
12.5°	1574.0	1569.6	1555.3	1541.3	1544.4
15°	1545.5	1539.0	1521.6	1508.0	1511.4
17.5°	1512.9	1506.1	1485.6	1471.0	1477.3
20°	1475.9	1466.2	1443.1	1430.2	1436.5
22.5°	1435.4	1422.9	1399.4	1388.0	1394.0
25°	1390.8	1375.3	1352.3	1344.6	1351.5
27.5°	1342.4	1325.8	1303.2	1297.2	1306.6
30°	1291.1	1273.5	1249.1	1248.8	1259.1
32.5°	1238.6	1220.2	1196.8	1200.8	1211.0
35°	1183.7	1163.3	1143.2	1150.0	1162.4
37.5°	1124.6	1105.6	1086.3	1100.8	1112.8
40°	1066.5	1046.7	1030.6	1048.7	1062.4
42.5°	1006.0	987.5	974.1	994.5	1010.3
45°	942.7	925.9	915.9	939.1	954.4
47.5°	879.5	862.6	857.4	882.4	899.7
50°	816.8	801.1	797.9	825.7	842.8
52.5°	751.4	736.2	737.7	766.2	786.4
55°	687.4	671.9	674.9	706.4	726.9
57.5°	621.5	610.4	613.8	647.6	672.0
60°	554.4	543.1	551.1	589.9	611.8
62.5°	489.5	478.0	485.9	528.1	542.1
65°	425.3	413.6	422.8	457.7	472.9
67.5°	362.5	351.2	364.7	395.6	404.8
70°	297.8	288.1	303.9	328.2	331.1
72.5°	237.7	229.0	247.1	261.4	260.1
75°	179.0	174.2	190.4	197.1	194.1
77.5°	127.8	125.3	138.4	140.9	138.2
80°	82.4	84.4	93.6	94.5	95.9
82.5°	47.9	51.5	58.1	66.1	67.6
85°	23.0	27.3	34.2	40.4	42.8
87.5°	8.0	10.9	14.0	15.5	15.1
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	15.91	17.49	16.27	17.80	18.12	16.35	17.93	16.72	18.25	18.56
	3H	17.33	18.76	17.71	19.08	19.45	17.92	19.34	18.29	19.67	20.03
	4H	17.75	19.09	18.15	19.44	19.81	18.35	19.68	18.75	20.03	20.41
	6H	17.96	19.20	18.37	19.56	19.95	18.57	19.80	18.98	20.17	20.56
	8H	17.99	19.17	18.42	19.56	19.96	18.62	19.80	19.05	20.19	20.59
	12H	17.99	19.12	18.42	19.50	19.93	18.66	19.79	19.09	20.17	20.60
4H	2H	16.45	17.78	16.85	18.13	18.51	16.81	18.15	17.21	18.50	18.87
	3H	18.06	19.17	18.47	19.57	19.97	18.57	19.69	18.98	20.08	20.49
	4H	18.56	19.56	18.99	19.97	20.41	19.11	20.11	19.54	20.52	20.96
	6H	18.84	19.72	19.30	20.16	20.61	19.42	20.29	19.87	20.73	21.19
	8H	18.89	19.71	19.36	20.15	20.62	19.50	20.31	19.96	20.76	21.22
	12H	18.91	19.64	19.39	20.12	20.59	19.57	20.30	20.05	20.77	21.24
8H	4H	18.77	19.58	19.23	20.03	20.49	19.27	20.08	19.73	20.53	20.99
	6H	19.12	19.79	19.61	20.28	20.75	19.64	20.32	20.14	20.81	21.28
	8H	19.20	19.80	19.71	20.31	20.79	19.77	20.37	20.28	20.88	21.37
	12H	19.24	19.77	19.75	20.27	20.83	19.88	20.42	20.39	20.91	21.47
12H	4H	18.77	19.50	19.26	19.98	20.45	19.27	20.00	19.75	20.47	20.94
	6H	19.13	19.73	19.64	20.24	20.72	19.64	20.25	20.15	20.75	21.24
	8H	19.24	19.77	19.75	20.27	20.83	19.81	20.34	20.32	20.83	21.39