

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: P1498162

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498162
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-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

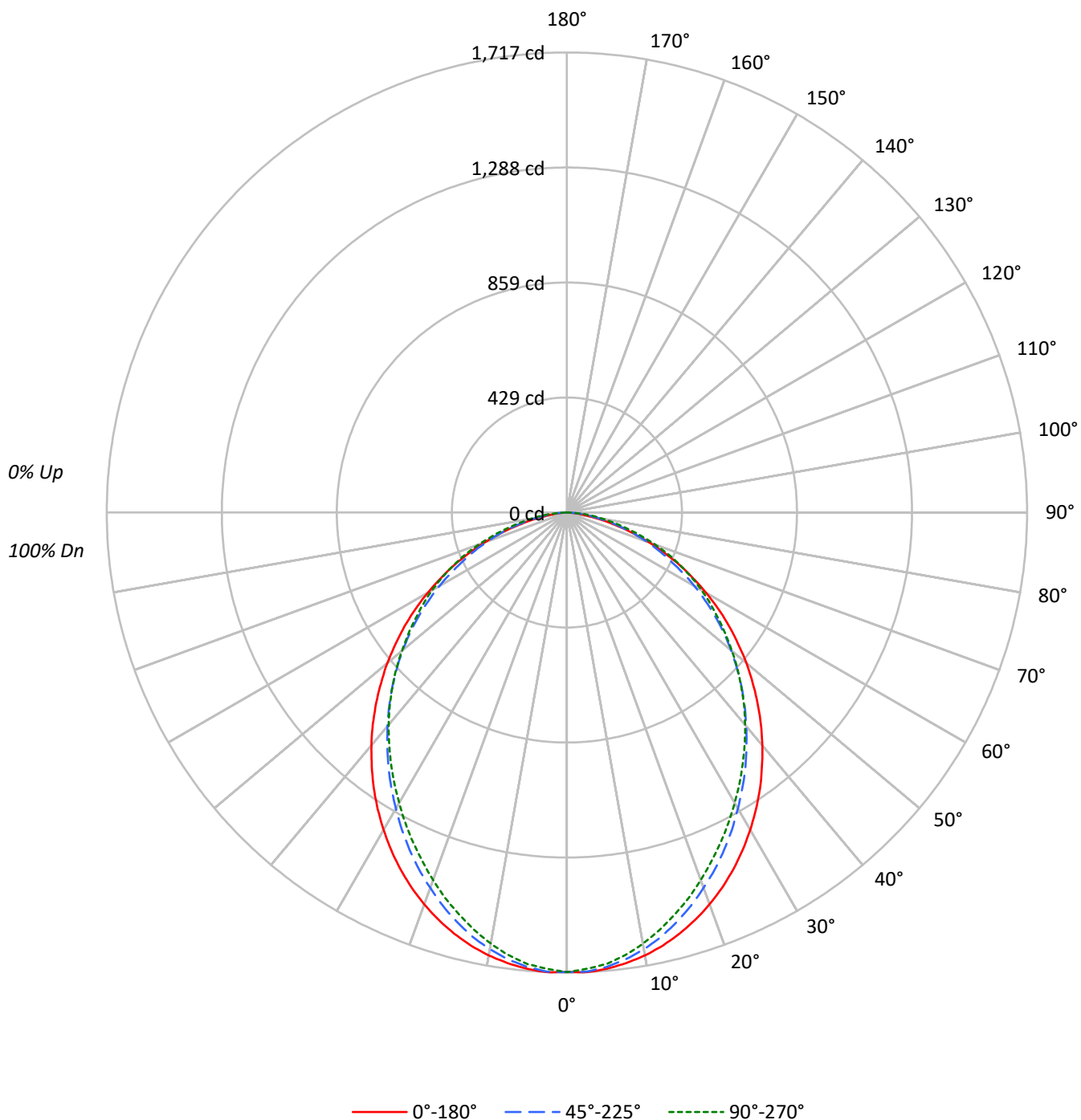
Lumens per Lamp: N/A
Luminaire Lumens: 4056.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	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°	4616	4616	4616
5°	4619	4598	4569
10°	4587	4524	4465
15°	4532	4409	4327
20°	4457	4270	4181
25°	4362	4124	4032
30°	4250	3964	3890
35°	4127	3813	3758
40°	3986	3658	3634
45°	3830	3505	3501
50°	3661	3346	3363
55°	3465	3165	3230
60°	3227	2959	3129
65°	2946	2710	2975
70°	2565	2475	2755
75°	2060	2181	2424
80°	1438	1788	2075
85°	809	1433	1930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	4.0
10°-20°	446.2	11.0
20°-30°	644.6	15.9
30°-40°	737.9	18.2
40°-50°	726.8	17.9
50°-60°	620.1	15.3
60°-70°	441.3	10.9
70°-80°	225.0	5.5
80°-90°	53.2	1.3
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°	1251.6	30.9
0°-40°	1989.6	49.1
0°-60°	3336.5	82.3
0°-90°	4056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1710	1708	1702	1688	1692	162
15°	1627	1615	1583	1553	1553	458
25°	1469	1441	1389	1358	1358	676
35°	1256	1217	1161	1142	1144	785
45°	1006	968	921	917	920	776
55°	739	703	675	680	688	659
65°	463	434	426	454	467	458
75°	198	186	210	229	233	214
85°	26	33	46	58	62	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.3	1715.3	1715.3	1715.3	1715.3
2.5°	1717.3	1719.0	1715.3	1701.3	1704.5
5°	1709.8	1708.5	1702.3	1687.5	1691.6
7.5°	1696.4	1693.5	1682.2	1664.1	1666.7
10°	1678.7	1672.9	1655.5	1632.6	1634.0
12.5°	1655.5	1647.1	1622.4	1595.3	1596.4
15°	1626.7	1615.0	1582.7	1552.6	1553.1
17.5°	1593.8	1579.3	1539.5	1506.7	1509.3
20°	1556.4	1537.5	1491.1	1458.7	1459.9
22.5°	1514.8	1491.5	1442.0	1409.3	1408.8
25°	1469.2	1441.3	1388.8	1358.2	1358.0
27.5°	1420.2	1389.1	1333.7	1304.5	1305.7
30°	1367.7	1333.8	1275.7	1250.5	1251.8
32.5°	1313.4	1277.1	1219.1	1197.1	1198.4
35°	1256.4	1217.0	1160.6	1141.6	1143.9
37.5°	1195.5	1156.9	1100.6	1087.6	1089.2
40°	1134.7	1094.9	1041.2	1031.5	1034.5
42.5°	1071.6	1032.4	981.8	974.4	978.3
45°	1006.3	967.6	921.1	916.7	920.0
47.5°	940.1	902.4	860.8	858.3	863.3
50°	874.6	837.6	799.2	799.8	803.4
52.5°	805.1	770.0	737.7	739.3	746.5
55°	738.6	703.2	674.6	679.7	688.5
57.5°	669.5	638.4	612.7	622.9	635.4
60°	599.6	569.4	549.8	567.8	581.3
62.5°	530.6	501.3	486.7	512.3	524.4
65°	462.7	434.4	425.6	454.4	467.3
67.5°	394.7	369.4	369.9	401.1	410.8
70°	326.0	303.2	314.6	343.1	350.2
72.5°	261.0	242.3	262.2	286.0	290.2
75°	198.1	185.7	209.8	229.0	233.1
77.5°	142.2	135.7	160.2	176.2	180.7
80°	92.8	94.6	115.4	129.1	133.9
82.5°	54.4	60.1	76.8	91.9	96.6
85°	26.2	33.0	46.4	57.5	62.5
87.5°	9.0	13.5	19.7	21.9	21.3
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	16.16	17.74	16.52	18.06	18.37	15.96	17.55	16.33	17.86	18.17
	3H	17.63	19.06	18.01	19.39	19.75	17.72	19.15	18.10	19.47	19.83
	4H	18.08	19.42	18.47	19.76	20.14	18.32	19.66	18.72	20.01	20.39
	6H	18.31	19.55	18.72	19.91	20.30	18.73	19.97	19.14	20.33	20.72
	8H	18.35	19.53	18.77	19.92	20.32	18.86	20.04	19.28	20.43	20.83
	12H	18.35	19.49	18.78	19.87	20.30	18.95	20.09	19.38	20.47	20.90
4H	2H	16.64	17.98	17.04	18.33	18.71	16.48	17.82	16.88	18.17	18.54
	3H	18.31	19.43	18.72	19.82	20.22	18.45	19.57	18.86	19.96	20.36
	4H	18.84	19.84	19.27	20.26	20.70	19.18	20.18	19.61	20.60	21.03
	6H	19.16	20.03	19.61	20.47	20.93	19.70	20.58	20.16	21.02	21.48
	8H	19.22	20.04	19.68	20.48	20.95	19.88	20.70	20.34	21.14	21.61
	12H	19.25	19.98	19.73	20.46	20.93	20.02	20.75	20.50	21.23	21.70
8H	4H	19.08	19.90	19.54	20.34	20.81	19.38	20.20	19.84	20.65	21.11
	6H	19.47	20.15	19.97	20.64	21.12	20.01	20.69	20.50	21.18	21.65
	8H	19.57	20.18	20.08	20.69	21.17	20.25	20.86	20.76	21.37	21.86
	12H	19.63	20.17	20.14	20.66	21.22	20.47	21.00	20.97	21.50	22.06
12H	4H	19.10	19.83	19.58	20.31	20.78	19.39	20.12	19.87	20.60	21.07
	6H	19.51	20.12	20.02	20.62	21.11	20.02	20.63	20.53	21.14	21.63
	8H	19.65	20.19	20.16	20.68	21.24	20.32	20.85	20.82	21.34	21.91