

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: P1498198

Luminaire Tested: MAE-G-2-120-1LO-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498198
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-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

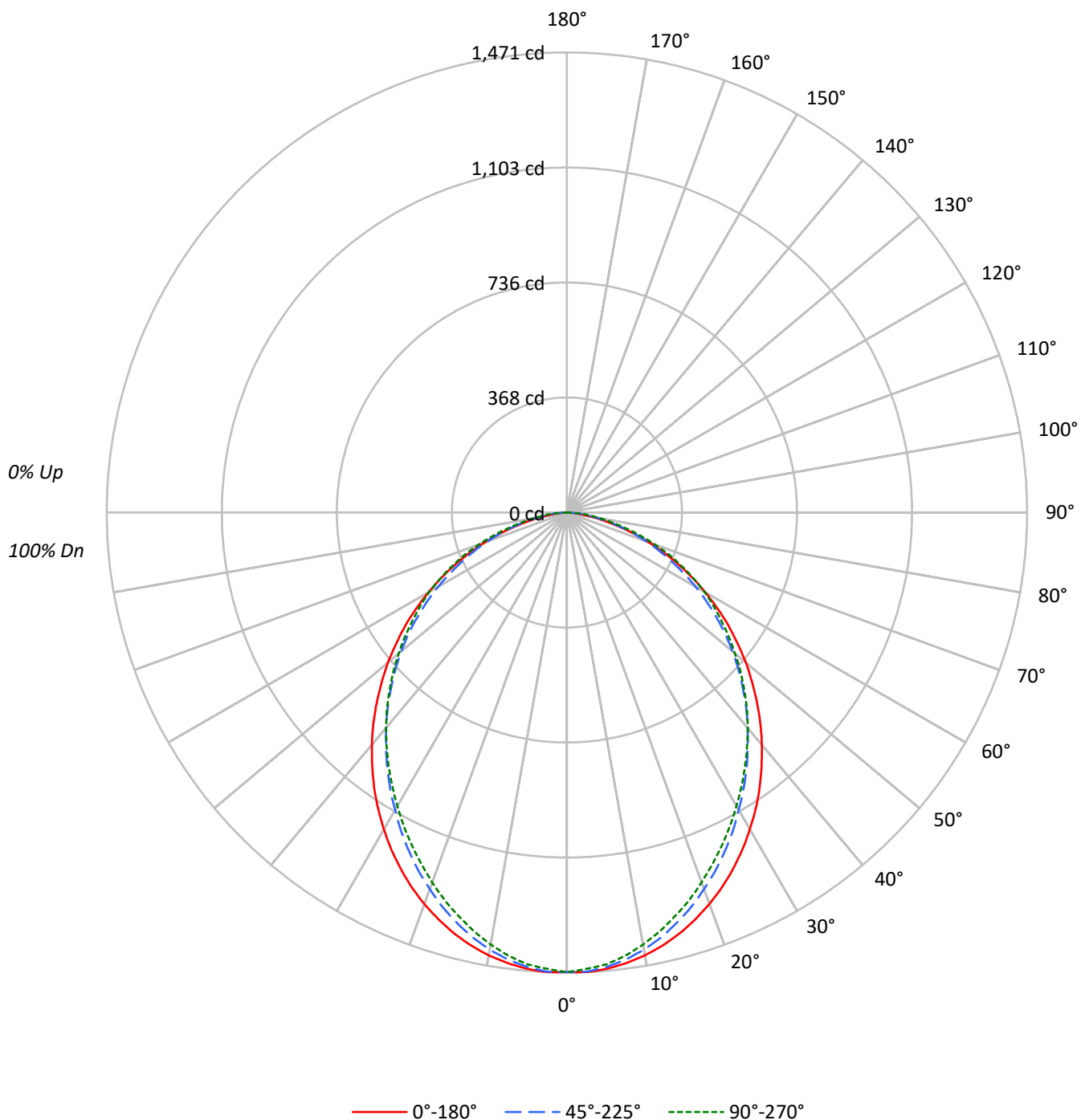
Lumens per Lamp: N/A
Luminaire Lumens: 3489.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	3955	3955	3955
5°	3957	3940	3917
10°	3929	3878	3833
15°	3881	3784	3722
20°	3816	3670	3604
25°	3733	3548	3484
30°	3635	3414	3368
35°	3529	3288	3260
40°	3407	3157	3159
45°	3271	3028	3050
50°	3126	2893	2936
55°	2956	2738	2824
60°	2750	2560	2733
65°	2508	2340	2579
70°	2182	2126	2357
75°	1748	1852	2028
80°	1216	1489	1694
85°	682	1176	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	4.0
10°-20°	383.1	11.0
20°-30°	554.4	15.9
30°-40°	635.8	18.2
40°-50°	627.3	18.0
50°-60°	535.8	15.4
60°-70°	380.2	10.9
70°-80°	190.7	5.5
80°-90°	43.9	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°	1075.3	30.8
0°-40°	1711.1	49.0
0°-60°	2874.2	82.4
0°-90°	3489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1465	1464	1459	1447	1450	139
15°	1393	1384	1358	1335	1336	393
25°	1257	1235	1195	1172	1173	579
35°	1074	1043	1001	989	992	671
45°	860	830	796	796	801	663
55°	630	603	584	592	602	562
65°	394	372	368	394	405	390
75°	168	159	178	193	195	181
85°	22	28	38	47	51	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.6	1469.6	1469.6	1469.6	1469.6
2.5°	1471.2	1472.6	1469.6	1458.0	1460.4
5°	1464.8	1463.6	1458.6	1446.7	1450.2
7.5°	1453.2	1450.9	1441.9	1427.4	1429.6
10°	1437.9	1433.2	1419.4	1401.3	1402.7
12.5°	1418.0	1411.4	1391.8	1370.6	1371.8
15°	1393.2	1383.9	1358.4	1335.2	1336.1
17.5°	1364.6	1353.5	1322.4	1297.0	1299.9
20°	1332.4	1317.6	1281.4	1256.7	1258.6
22.5°	1296.7	1278.4	1239.9	1215.3	1215.9
25°	1257.3	1235.3	1195.0	1172.3	1173.4
27.5°	1215.1	1190.6	1148.3	1127.0	1129.3
30°	1169.9	1143.4	1098.8	1081.2	1083.9
32.5°	1123.3	1094.8	1050.5	1036.0	1038.6
35°	1074.2	1043.4	1000.8	988.8	992.5
37.5°	1021.9	991.8	949.4	942.8	946.0
40°	969.8	938.8	898.7	894.9	899.3
42.5°	915.7	885.3	847.8	846.1	851.4
45°	859.6	829.8	795.7	796.5	801.4
47.5°	802.8	773.7	743.9	746.3	752.7
50°	746.6	718.2	691.0	696.0	701.4
52.5°	687.1	660.3	638.0	643.9	652.3
55°	630.1	602.8	583.5	592.4	601.9
57.5°	570.8	547.3	530.0	542.9	555.6
60°	511.0	487.9	475.7	494.7	507.9
62.5°	451.9	429.6	420.8	445.8	456.5
65°	393.9	372.2	367.5	393.6	405.0
67.5°	335.9	316.4	319.0	345.9	354.3
70°	277.3	259.7	270.2	294.3	299.6
72.5°	221.8	207.2	224.2	243.1	245.9
75°	168.1	158.7	178.1	192.7	195.1
77.5°	120.5	115.6	134.9	146.4	149.2
80°	78.5	80.1	96.1	105.9	109.3
82.5°	46.0	50.5	63.3	75.1	78.6
85°	22.1	27.6	38.1	46.9	50.8
87.5°	7.5	11.2	16.0	17.8	17.3
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	15.60	17.19	15.97	17.50	17.82	15.53	17.12	15.90	17.43	17.75
	3H	17.07	18.50	17.45	18.82	19.18	17.25	18.68	17.63	19.01	19.37
	4H	17.51	18.85	17.91	19.20	19.57	17.82	19.16	18.22	19.51	19.88
	6H	17.74	18.98	18.15	19.34	19.73	18.19	19.43	18.60	19.79	20.18
	8H	17.78	18.96	18.20	19.35	19.75	18.30	19.48	18.73	19.87	20.27
	12H	17.78	18.91	18.21	19.30	19.72	18.39	19.52	18.82	19.90	20.33
4H	2H	16.10	17.44	16.50	17.79	18.16	16.04	17.38	16.44	17.73	18.10
	3H	17.75	18.87	18.16	19.27	19.67	17.97	19.08	18.38	19.48	19.88
	4H	18.28	19.28	18.71	19.70	20.14	18.66	19.66	19.09	20.08	20.51
	6H	18.59	19.47	19.05	19.91	20.37	19.14	20.01	19.59	20.46	20.91
	8H	18.65	19.47	19.11	19.91	20.38	19.29	20.11	19.76	20.56	21.02
	12H	18.68	19.41	19.16	19.89	20.36	19.42	20.15	19.90	20.63	21.10
8H	4H	18.51	19.33	18.98	19.78	20.24	18.85	19.67	19.32	20.12	20.58
	6H	18.90	19.58	19.39	20.07	20.54	19.43	20.11	19.92	20.60	21.07
	8H	18.99	19.60	19.51	20.11	20.60	19.65	20.26	20.16	20.76	21.25
	12H	19.05	19.59	19.56	20.08	20.64	19.84	20.38	20.35	20.87	21.43
12H	4H	18.53	19.27	19.01	19.74	20.21	18.86	19.59	19.34	20.07	20.54
	6H	18.93	19.54	19.44	20.05	20.53	19.44	20.05	19.95	20.56	21.04
	8H	19.07	19.60	19.58	20.10	20.66	19.71	20.24	20.22	20.74	21.30