

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: P1498192

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498192
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-30-90-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

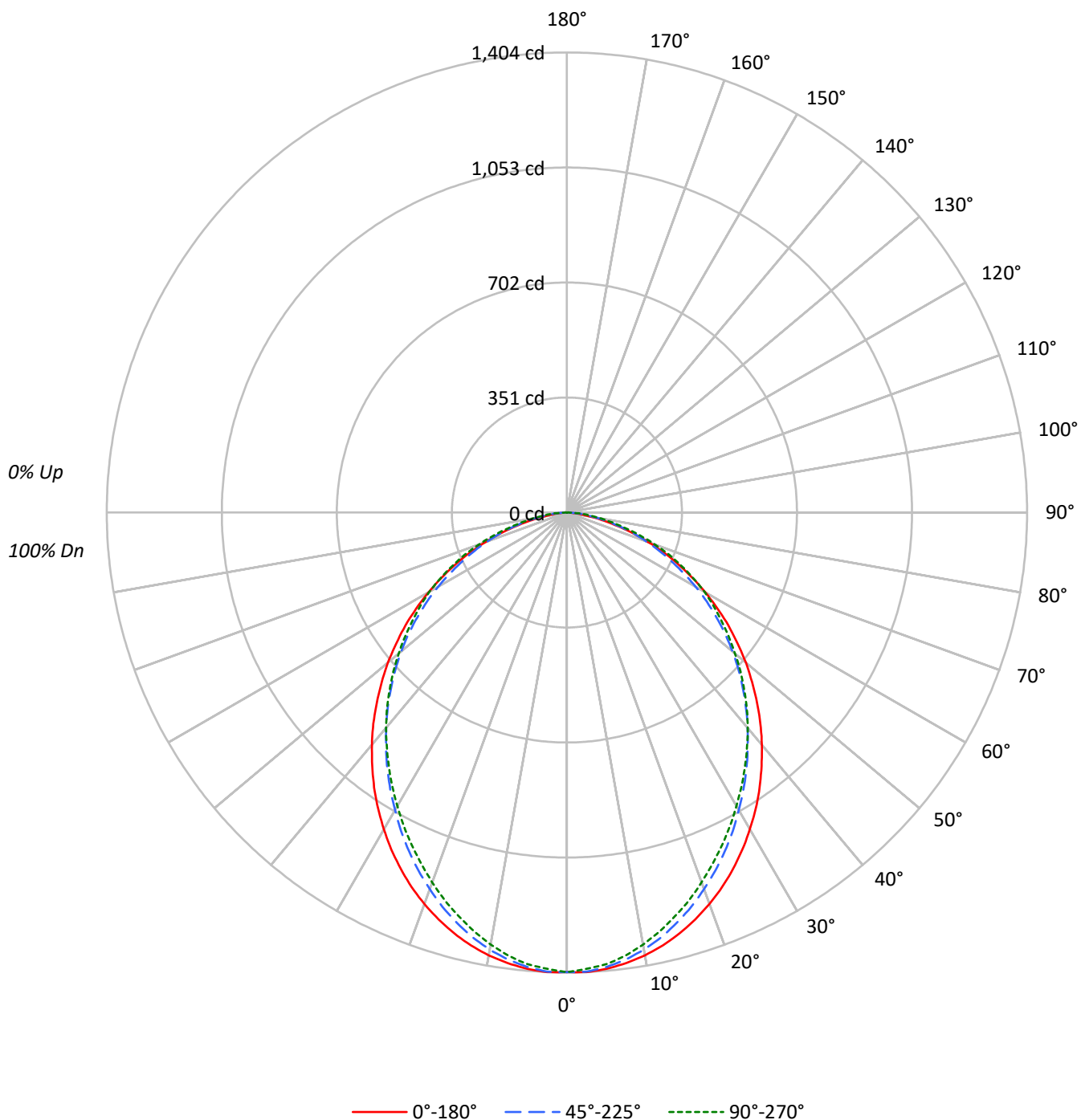
Lumens per Lamp: N/A
Luminaire Lumens: 3330.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3775	3775	3775
5°	3776	3760	3739
10°	3750	3702	3658
15°	3704	3612	3553
20°	3641	3503	3440
25°	3563	3386	3325
30°	3470	3259	3214
35°	3368	3138	3112
40°	3251	3013	3015
45°	3122	2890	2911
50°	2983	2761	2803
55°	2822	2613	2695
60°	2624	2443	2609
65°	2394	2234	2462
70°	2082	2029	2250
75°	1669	1768	1935
80°	1161	1421	1618
85°	655	1121	1494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.0
10°-20°	365.6	11.0
20°-30°	529.1	15.9
30°-40°	606.8	18.2
40°-50°	598.7	18.0
50°-60°	511.4	15.4
60°-70°	362.8	10.9
70°-80°	182.0	5.5
80°-90°	41.9	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°	1026.3	30.8
0°-40°	1633.1	49.0
0°-60°	2743.2	82.4
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1398	1397	1392	1381	1384	133
15°	1330	1321	1296	1274	1275	375
25°	1200	1179	1140	1119	1120	552
35°	1025	996	955	944	947	641
45°	820	792	759	760	765	633
55°	601	575	557	565	574	537
65°	376	355	351	376	387	372
75°	160	151	170	184	186	173
85°	21	26	36	45	48	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1404.2	1405.5	1402.7	1391.5	1393.8
5°	1398.0	1396.9	1392.1	1380.7	1384.0
7.5°	1387.0	1384.8	1376.1	1362.4	1364.4
10°	1372.3	1367.9	1354.8	1337.4	1338.8
12.5°	1353.3	1347.1	1328.4	1308.1	1309.2
15°	1329.6	1320.8	1296.5	1274.3	1275.3
17.5°	1302.5	1291.8	1262.0	1237.9	1240.7
20°	1271.6	1257.6	1223.1	1199.4	1201.2
22.5°	1237.5	1220.1	1183.3	1159.8	1160.5
25°	1200.1	1179.0	1140.5	1119.0	1119.9
27.5°	1159.7	1136.4	1096.0	1075.5	1077.9
30°	1116.6	1091.2	1048.8	1031.9	1034.4
32.5°	1072.1	1045.0	1002.6	988.7	991.2
35°	1025.3	995.9	955.2	943.8	947.2
37.5°	975.3	946.7	906.1	899.9	902.8
40°	925.6	896.0	857.7	854.1	858.4
42.5°	874.0	844.9	809.1	807.6	812.6
45°	820.3	792.0	759.4	760.3	764.9
47.5°	766.3	738.4	710.0	712.3	718.5
50°	712.6	685.4	659.5	664.3	669.5
52.5°	655.8	630.2	608.9	614.6	622.5
55°	601.4	575.4	556.9	565.3	574.5
57.5°	544.9	522.4	505.9	518.1	530.4
60°	487.6	465.7	454.0	472.2	484.7
62.5°	431.3	410.0	401.6	425.4	435.7
65°	375.9	355.2	350.8	375.6	386.6
67.5°	320.5	301.9	304.5	330.1	338.1
70°	264.6	247.8	257.9	280.8	286.0
72.5°	211.7	197.8	214.0	232.0	234.7
75°	160.5	151.4	170.0	183.9	186.1
77.5°	115.0	110.4	128.6	139.7	142.3
80°	74.9	76.5	91.7	101.0	104.4
82.5°	43.8	48.1	60.4	71.6	75.1
85°	21.2	26.4	36.3	44.7	48.4
87.5°	7.3	10.8	15.3	17.1	16.6
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	15.44	17.03	15.81	17.34	17.65	15.37	16.96	15.74	17.27	17.58
	3H	16.91	18.33	17.29	18.66	19.02	17.09	18.52	17.47	18.84	19.20
	4H	17.35	18.69	17.75	19.03	19.41	17.66	19.00	18.05	19.34	19.72
	6H	17.58	18.81	17.99	19.18	19.57	18.02	19.26	18.43	19.63	20.02
	8H	17.61	18.79	18.04	19.18	19.58	18.14	19.32	18.56	19.71	20.11
	12H	17.62	18.75	18.05	19.13	19.56	18.22	19.36	18.65	19.74	20.17
4H	2H	15.94	17.28	16.33	17.62	18.00	15.88	17.22	16.28	17.57	17.94
	3H	17.59	18.71	18.00	19.11	19.51	17.80	18.92	18.21	19.32	19.72
	4H	18.12	19.12	18.55	19.54	19.97	18.49	19.50	18.92	19.91	20.35
	6H	18.43	19.31	18.88	19.75	20.20	18.97	19.85	19.43	20.29	20.75
	8H	18.49	19.31	18.95	19.75	20.22	19.13	19.95	19.59	20.39	20.86
	12H	18.51	19.25	19.00	19.73	20.20	19.26	19.99	19.74	20.47	20.94
8H	4H	18.35	19.17	18.81	19.61	20.08	18.69	19.51	19.15	19.95	20.42
	6H	18.74	19.41	19.23	19.90	20.38	19.27	19.94	19.76	20.43	20.91
	8H	18.83	19.44	19.34	19.95	20.43	19.49	20.09	20.00	20.60	21.09
	12H	18.89	19.43	19.40	19.92	20.48	19.68	20.22	20.19	20.71	21.27
12H	4H	18.37	19.10	18.85	19.58	20.05	18.69	19.43	19.17	19.90	20.37
	6H	18.77	19.37	19.28	19.88	20.37	19.28	19.89	19.79	20.39	20.88
	8H	18.90	19.44	19.41	19.93	20.50	19.54	20.08	20.05	20.57	21.14

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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