

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: P1498180

Luminaire Tested: MAE-G-2-120-1LO-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498180
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-LO-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

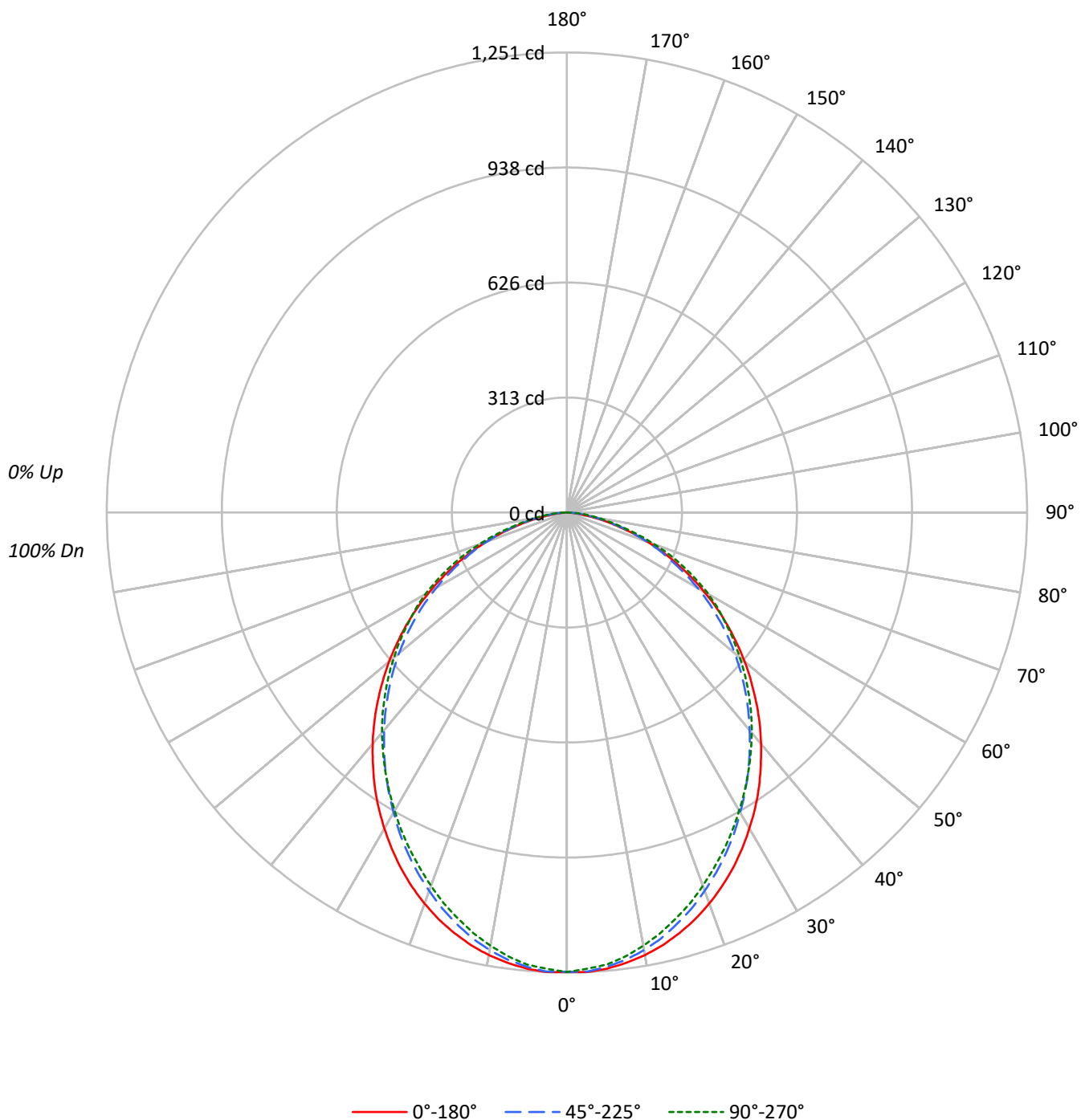
Lumens per Lamp: N/A
Luminaire Lumens: 2985.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		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°	3362	3362	3362
5°	3364	3351	3334
10°	3340	3302	3269
15°	3298	3227	3185
20°	3241	3135	3094
25°	3169	3037	3001
30°	3083	2927	2910
35°	2992	2823	2825
40°	2886	2715	2746
45°	2768	2608	2659
50°	2642	2494	2569
55°	2497	2361	2475
60°	2319	2209	2394
65°	2111	2015	2232
70°	1833	1816	2001
75°	1463	1553	1660
80°	1013	1210	1333
85°	568	929	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.9
10°-20°	326.7	10.9
20°-30°	474.2	15.9
30°-40°	545.3	18.3
40°-50°	539.3	18.1
50°-60°	461.6	15.5
60°-70°	326.0	10.9
70°-80°	159.5	5.3
80°-90°	35.2	1.2
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°	918.2	30.8
0°-40°	1463.5	49.0
0°-60°	2464.4	82.6
0°-90°	2985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1245	1244	1240	1231	1234	118
15°	1184	1177	1158	1142	1143	334
25°	1067	1051	1023	1008	1011	491
35°	911	888	859	855	860	569
45°	727	707	685	692	699	561
55°	532	513	503	517	528	475
65°	332	316	316	340	351	328
75°	141	134	149	159	160	152
85°	18	23	30	37	39	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.5	1249.5	1249.5	1249.5	1249.5
2.5°	1251.0	1252.1	1249.5	1240.0	1241.8
5°	1245.2	1244.2	1240.4	1231.3	1234.1
7.5°	1235.3	1233.5	1226.6	1215.9	1217.7
10°	1222.2	1218.7	1208.3	1194.8	1196.2
12.5°	1205.1	1200.3	1185.8	1170.3	1171.8
15°	1183.8	1176.9	1158.2	1141.8	1143.3
17.5°	1159.3	1151.4	1128.7	1110.8	1114.2
20°	1131.6	1120.8	1094.7	1077.7	1080.4
22.5°	1101.0	1087.6	1060.1	1043.5	1045.5
25°	1067.3	1051.1	1022.7	1008.2	1010.6
27.5°	1031.0	1013.1	983.8	970.4	974.3
30°	992.2	972.9	941.9	932.2	936.4
32.5°	952.4	931.9	901.2	894.4	898.6
35°	910.7	888.1	859.4	854.7	860.1
37.5°	865.8	844.3	815.7	816.1	821.2
40°	821.5	799.2	772.9	775.7	781.8
42.5°	775.4	753.7	729.5	734.2	741.5
45°	727.3	706.6	685.2	692.0	698.8
47.5°	679.1	658.6	640.8	649.1	657.3
50°	631.2	611.5	595.7	606.0	613.7
52.5°	580.9	562.1	550.3	561.3	571.4
55°	532.2	513.1	503.3	516.8	527.6
57.5°	481.9	466.0	457.5	473.7	487.3
60°	430.8	415.1	410.5	431.6	444.8
62.5°	380.8	365.4	362.8	388.0	397.6
65°	331.5	316.5	316.5	340.2	350.6
67.5°	282.6	268.9	274.0	297.2	304.2
70°	233.0	220.6	230.8	250.5	254.3
72.5°	186.2	175.8	190.0	204.3	205.5
75°	140.7	134.4	149.4	159.2	159.7
77.5°	100.8	97.5	111.5	118.5	119.2
80°	65.4	66.9	78.1	83.7	86.0
82.5°	38.1	41.6	50.5	59.1	61.5
85°	18.4	22.6	30.1	36.7	39.4
87.5°	6.3	9.1	12.6	14.0	13.6
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	15.02	16.60	15.38	16.92	17.23	15.14	16.72	15.50	17.03	17.35
	3H	16.47	17.90	16.85	18.22	18.58	16.80	18.22	17.17	18.55	18.91
	4H	16.90	18.24	17.30	18.59	18.96	17.31	18.65	17.71	19.00	19.38
	6H	17.12	18.36	17.53	18.73	19.12	17.62	18.86	18.03	19.23	19.62
	8H	17.16	18.34	17.58	18.73	19.13	17.72	18.90	18.14	19.29	19.68
	12H	17.16	18.29	17.59	18.68	19.10	17.78	18.91	18.21	19.29	19.72
4H	2H	15.53	16.87	15.93	17.22	17.59	15.62	16.96	16.02	17.31	17.69
	3H	17.17	18.28	17.58	18.68	19.08	17.49	18.61	17.90	19.00	19.40
	4H	17.68	18.69	18.12	19.10	19.54	18.12	19.13	18.55	19.54	19.98
	6H	17.99	18.86	18.44	19.30	19.76	18.54	19.41	18.99	19.85	20.31
	8H	18.04	18.86	18.50	19.30	19.77	18.67	19.48	19.13	19.93	20.39
	12H	18.07	18.80	18.55	19.28	19.75	18.77	19.50	19.25	19.98	20.45
8H	4H	17.91	18.73	18.37	19.17	19.64	18.31	19.12	18.77	19.57	20.03
	6H	18.28	18.96	18.78	19.45	19.92	18.80	19.48	19.30	19.97	20.45
	8H	18.37	18.98	18.88	19.48	19.97	18.99	19.60	19.50	20.10	20.59
	12H	18.42	18.96	18.93	19.45	20.01	19.16	19.69	19.66	20.18	20.74
12H	4H	17.92	18.66	18.40	19.13	19.60	18.31	19.04	18.79	19.51	19.98
	6H	18.30	18.91	18.82	19.42	19.91	18.81	19.42	19.32	19.93	20.41
	8H	18.44	18.97	18.94	19.46	20.02	19.04	19.58	19.55	20.07	20.63