

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: P1498189

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498189
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-50-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

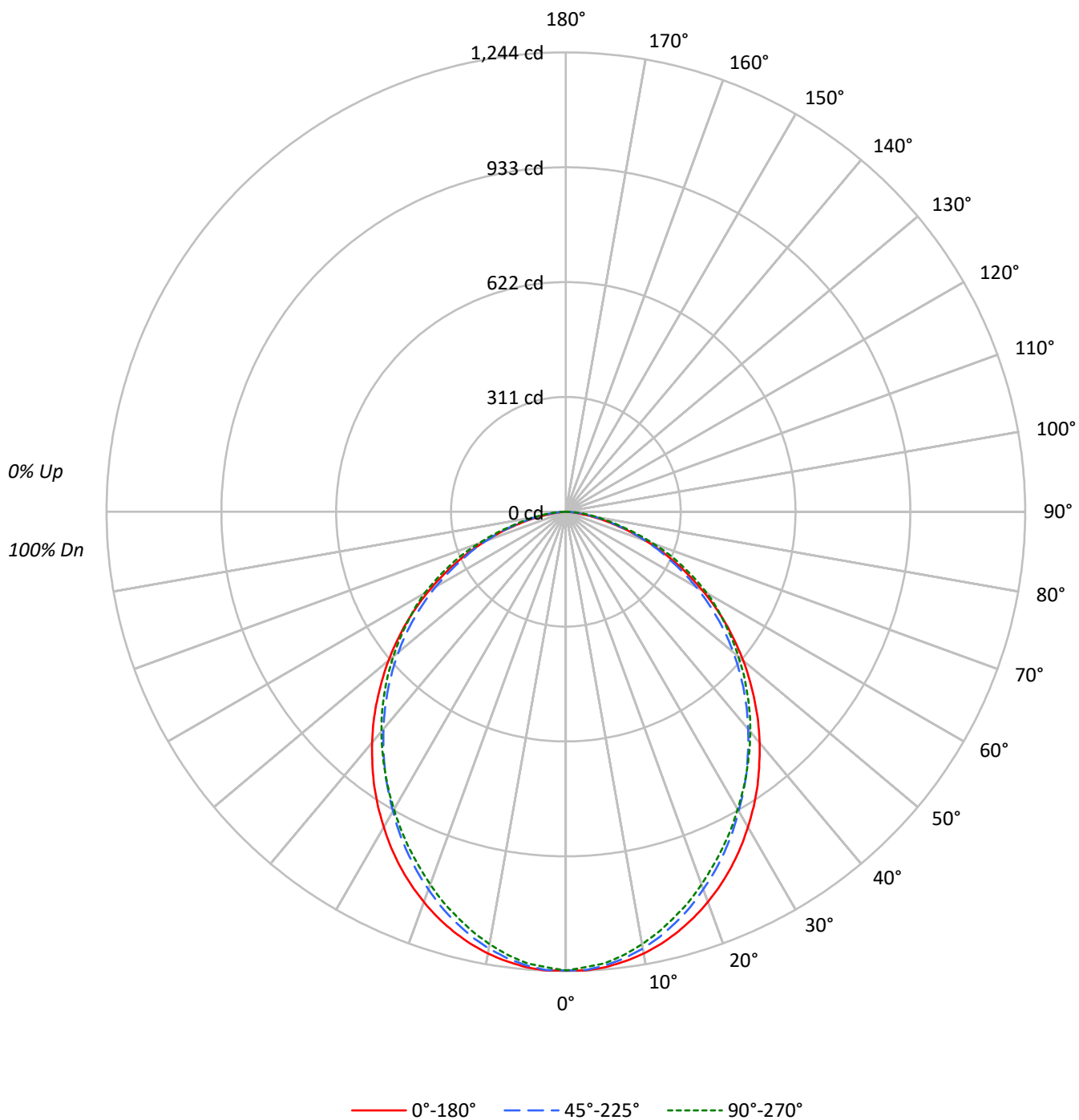
Lumens per Lamp: N/A
Luminaire Lumens: 2967.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3342	3342	3342
5°	3344	3330	3314
10°	3319	3282	3249
15°	3278	3207	3166
20°	3221	3116	3076
25°	3150	3018	2983
30°	3065	2909	2892
35°	2973	2806	2808
40°	2869	2699	2730
45°	2751	2592	2643
50°	2627	2479	2554
55°	2482	2347	2460
60°	2305	2196	2379
65°	2098	2003	2219
70°	1821	1805	1988
75°	1455	1544	1650
80°	1007	1203	1325
85°	565	926	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.9
10°-20°	324.7	10.9
20°-30°	471.3	15.9
30°-40°	542.0	18.3
40°-50°	536.1	18.1
50°-60°	458.8	15.5
60°-70°	324.0	10.9
70°-80°	158.5	5.3
80°-90°	35.0	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°	912.6	30.8
0°-40°	1454.7	49.0
0°-60°	2449.5	82.6
0°-90°	2967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1238	1237	1233	1224	1227	117
15°	1177	1170	1151	1135	1136	332
25°	1061	1045	1016	1002	1005	488
35°	905	883	854	850	855	565
45°	723	702	681	688	695	558
55°	529	510	500	514	524	472
65°	330	314	315	338	348	326
75°	140	134	148	158	159	151
85°	18	22	30	36	39	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1243.5	1244.5	1242.0	1232.6	1234.3
5°	1237.8	1236.7	1232.9	1223.9	1226.7
7.5°	1227.9	1226.1	1219.3	1208.5	1210.4
10°	1214.8	1211.3	1201.0	1187.6	1189.0
12.5°	1197.8	1193.0	1178.6	1163.2	1164.7
15°	1176.7	1169.8	1151.3	1135.0	1136.4
17.5°	1152.3	1144.4	1121.9	1104.1	1107.5
20°	1124.7	1114.1	1088.1	1071.2	1074.0
22.5°	1094.3	1081.0	1053.7	1037.2	1039.2
25°	1060.9	1044.7	1016.5	1002.1	1004.6
27.5°	1024.8	1007.0	977.8	964.6	968.5
30°	986.3	967.1	936.2	926.6	930.8
32.5°	946.7	926.2	895.8	889.0	893.2
35°	905.1	882.9	854.2	849.5	854.9
37.5°	860.6	839.2	810.9	811.2	816.2
40°	816.6	794.3	768.2	771.1	777.1
42.5°	770.7	749.1	725.2	729.7	736.9
45°	723.0	702.3	681.1	687.8	694.6
47.5°	675.0	654.6	637.0	645.1	653.3
50°	627.5	607.8	592.1	602.4	610.0
52.5°	577.5	558.7	547.0	557.9	568.0
55°	529.0	510.0	500.3	513.7	524.4
57.5°	479.0	463.2	454.6	470.8	484.4
60°	428.2	412.7	408.1	429.0	442.1
62.5°	378.5	363.2	360.6	385.6	395.2
65°	329.5	314.5	314.6	338.1	348.5
67.5°	281.0	267.2	272.4	295.4	302.4
70°	231.5	219.3	229.4	249.0	252.7
72.5°	185.1	174.8	188.9	203.1	204.2
75°	139.9	133.5	148.5	158.2	158.7
77.5°	100.2	96.8	110.9	117.8	118.6
80°	65.0	66.4	77.6	83.2	85.5
82.5°	38.0	41.4	50.2	58.8	61.1
85°	18.3	22.4	30.0	36.4	39.2
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	15.00	16.58	15.36	16.89	17.21	15.11	16.70	15.48	17.01	17.33
	3H	16.45	17.87	16.83	18.20	18.56	16.77	18.20	17.15	18.53	18.89
	4H	16.88	18.22	17.28	18.57	18.94	17.29	18.63	17.69	18.98	19.35
	6H	17.10	18.34	17.51	18.71	19.10	17.60	18.84	18.01	19.20	19.60
	8H	17.14	18.32	17.56	18.71	19.11	17.69	18.87	18.12	19.26	19.66
	12H	17.14	18.27	17.57	18.65	19.08	17.76	18.89	18.19	19.27	19.70
4H	2H	15.51	16.85	15.91	17.19	17.57	15.60	16.94	16.00	17.29	17.67
	3H	17.15	18.26	17.56	18.66	19.06	17.47	18.58	17.88	18.98	19.38
	4H	17.66	18.67	18.09	19.08	19.52	18.10	19.10	18.53	19.52	19.96
	6H	17.97	18.84	18.42	19.28	19.74	18.52	19.39	18.97	19.83	20.29
	8H	18.02	18.84	18.48	19.28	19.75	18.65	19.46	19.11	19.91	20.37
	12H	18.05	18.78	18.53	19.25	19.72	18.75	19.48	19.23	19.96	20.43
8H	4H	17.89	18.71	18.35	19.15	19.62	18.28	19.10	18.75	19.54	20.01
	6H	18.26	18.94	18.76	19.43	19.90	18.78	19.46	19.28	19.95	20.43
	8H	18.35	18.96	18.86	19.46	19.95	18.97	19.57	19.48	20.08	20.57
	12H	18.40	18.94	18.91	19.43	19.99	19.13	19.67	19.64	20.16	20.72
12H	4H	17.90	18.63	18.38	19.11	19.58	18.28	19.02	18.77	19.49	19.96
	6H	18.28	18.89	18.79	19.40	19.88	18.79	19.40	19.30	19.90	20.39
	8H	18.41	18.95	18.92	19.44	20.00	19.02	19.56	19.53	20.05	20.61