

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: P1498285

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498285
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-2-120-1STD-LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

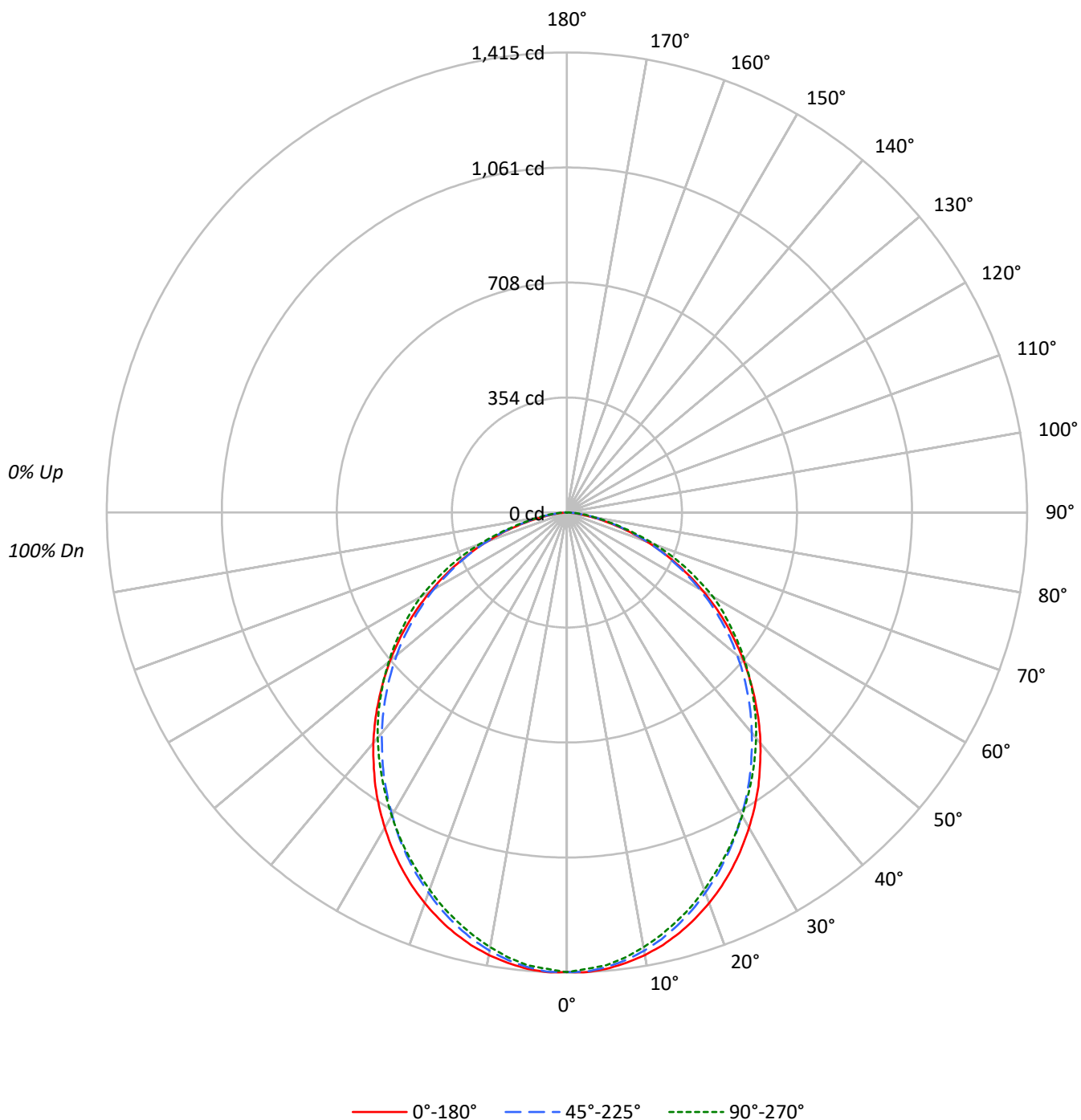
Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3804	3804	3804
5°	3805	3791	3775
10°	3777	3740	3710
15°	3729	3662	3628
20°	3661	3564	3536
25°	3579	3459	3441
30°	3479	3339	3347
35°	3373	3227	3260
40°	3252	3108	3179
45°	3116	2989	3087
50°	2972	2862	2993
55°	2805	2712	2889
60°	2599	2539	2791
65°	2362	2309	2572
70°	2047	2063	2259
75°	1629	1731	1802
80°	1122	1302	1378
85°	627	969	1241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.9
10°-20°	370.8	10.9
20°-30°	539.8	15.9
30°-40°	622.5	18.3
40°-50°	617.3	18.2
50°-60°	529.3	15.6
60°-70°	372.0	10.9
70°-80°	177.2	5.2
80°-90°	37.2	1.1
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°	1043.3	30.7
0°-40°	1665.9	49.0
0°-60°	2812.6	82.7
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1409	1407	1404	1394	1398	134
15°	1338	1332	1314	1300	1302	377
25°	1205	1190	1165	1154	1159	555
35°	1027	1006	982	984	992	641
45°	819	801	786	800	811	632
55°	598	581	578	600	616	534
65°	371	358	363	392	404	367
75°	157	151	166	174	173	169
85°	20	24	31	38	40	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.6	1413.6	1413.6	1413.6	1413.6
2.5°	1415.3	1416.3	1413.6	1403.4	1404.9
5°	1408.6	1407.3	1403.5	1394.5	1397.5
7.5°	1397.3	1395.5	1388.7	1378.2	1380.2
10°	1382.2	1378.7	1368.7	1355.7	1357.7
12.5°	1362.7	1358.2	1344.3	1329.9	1332.1
15°	1338.4	1331.8	1314.3	1299.7	1302.1
17.5°	1310.3	1303.2	1282.1	1266.3	1271.2
20°	1278.5	1268.6	1244.6	1230.2	1234.7
22.5°	1243.7	1231.1	1206.3	1192.7	1196.7
25°	1205.3	1189.8	1164.9	1154.2	1158.9
27.5°	1163.8	1147.0	1121.8	1112.4	1119.1
30°	1119.6	1101.7	1074.7	1070.0	1077.2
32.5°	1074.4	1055.3	1029.1	1028.0	1035.2
35°	1026.8	1006.1	982.3	983.6	992.4
37.5°	975.9	956.2	933.1	940.6	949.0
40°	925.8	905.2	884.8	895.3	905.0
42.5°	873.4	853.8	835.8	848.3	859.6
45°	818.8	800.6	785.5	800.4	811.3
47.5°	764.2	745.9	735.0	751.5	764.2
50°	710.0	692.7	683.7	702.6	714.9
52.5°	653.3	636.7	631.9	651.5	666.5
55°	597.9	581.1	578.1	600.3	615.7
57.5°	540.9	527.9	525.5	550.3	569.0
60°	483.0	469.9	471.8	501.3	518.6
62.5°	426.6	413.6	416.4	449.5	461.1
65°	371.0	358.0	362.7	391.5	404.0
67.5°	316.3	304.0	313.4	339.8	347.8
70°	260.2	249.4	262.2	283.8	287.1
72.5°	207.8	198.5	214.3	228.2	228.2
75°	156.7	151.3	166.5	174.5	173.3
77.5°	112.0	109.2	122.5	126.9	126.0
80°	72.4	74.1	84.0	87.2	88.9
82.5°	42.2	45.6	53.2	61.2	63.1
85°	20.3	24.4	31.4	37.7	40.2
87.5°	7.0	9.8	13.0	14.4	14.0
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	15.42	17.00	15.79	17.32	17.63	15.73	17.32	16.10	17.63	17.94
	3H	16.86	18.28	17.24	18.61	18.97	17.34	18.76	17.71	19.09	19.45
	4H	17.28	18.62	17.68	18.97	19.35	17.80	19.14	18.20	19.49	19.86
	6H	17.50	18.73	17.91	19.10	19.49	18.06	19.29	18.47	19.66	20.05
	8H	17.53	18.71	17.96	19.10	19.50	18.13	19.31	18.55	19.70	20.10
	12H	17.53	18.66	17.96	19.04	19.47	18.18	19.31	18.61	19.69	20.12
4H	2H	15.95	17.29	16.35	17.64	18.01	16.21	17.54	16.60	17.89	18.27
	3H	17.57	18.69	17.98	19.08	19.49	18.01	19.12	18.42	19.52	19.92
	4H	18.08	19.08	18.51	19.50	19.93	18.58	19.58	19.01	20.00	20.44
	6H	18.37	19.25	18.83	19.69	20.14	18.93	19.81	19.39	20.25	20.70
	8H	18.42	19.24	18.89	19.68	20.15	19.04	19.85	19.50	20.29	20.76
	12H	18.45	19.18	18.93	19.65	20.12	19.12	19.85	19.60	20.32	20.79
8H	4H	18.30	19.11	18.76	19.56	20.02	18.75	19.57	19.21	20.01	20.48
	6H	18.65	19.33	19.15	19.82	20.29	19.18	19.85	19.67	20.34	20.82
	8H	18.74	19.34	19.25	19.85	20.34	19.33	19.93	19.84	20.44	20.93
	12H	18.79	19.32	19.30	19.81	20.37	19.46	19.99	19.97	20.49	21.05
12H	4H	18.31	19.03	18.79	19.51	19.98	18.75	19.48	19.23	19.96	20.43
	6H	18.67	19.27	19.18	19.78	20.27	19.18	19.78	19.69	20.29	20.78
	8H	18.79	19.32	19.30	19.82	20.38	19.37	19.90	19.88	20.39	20.96