

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: P1498135

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498135
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

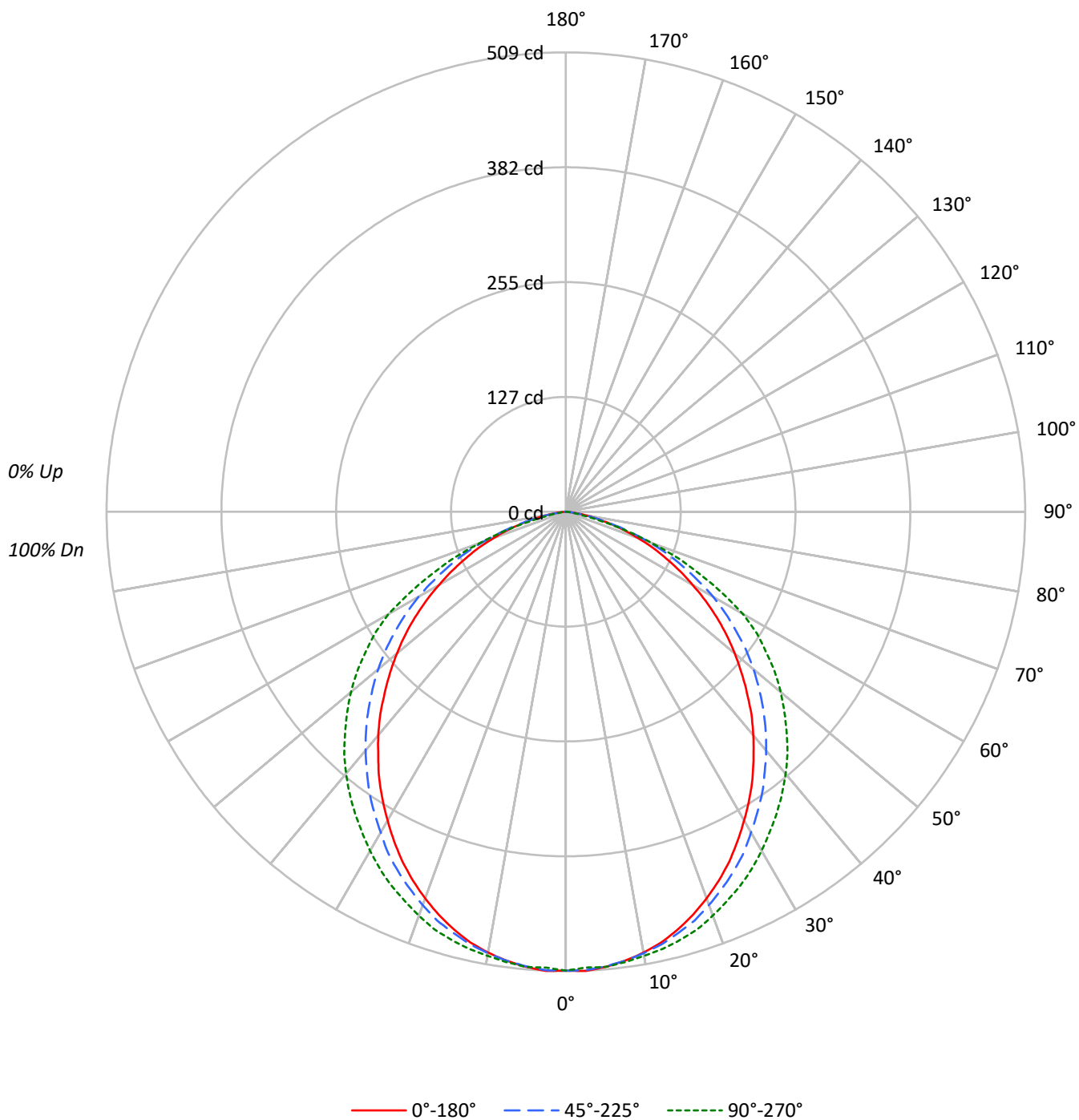
Lumens per Lamp: N/A
Luminaire Lumens: 1280.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1368	1368	1368
5°	1367	1365	1367
10°	1355	1357	1365
15°	1335	1345	1368
20°	1305	1328	1364
25°	1271	1306	1358
30°	1227	1275	1348
35°	1185	1247	1339
40°	1136	1213	1331
45°	1080	1177	1317
50°	1023	1136	1302
55°	958	1081	1270
60°	874	1016	1221
65°	783	909	1048
70°	668	766	800
75°	517	555	449
80°	339	294	158
85°	182	136	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	3.8
10°-20°	136.5	10.7
20°-30°	202.9	15.9
30°-40°	238.5	18.6
40°-50°	240.7	18.8
50°-60°	209.1	16.3
60°-70°	142.3	11.1
70°-80°	55.4	4.3
80°-90°	6.6	0.5
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°	387.3	30.3
0°-40°	625.9	48.9
0°-60°	1075.7	84.0
0°-90°	1280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	506	506	506	506	506	48
15°	479	480	483	488	491	135
25°	428	430	440	451	457	197
35°	361	365	380	397	408	225
45°	284	291	309	334	346	219
55°	204	211	230	257	271	182
65°	123	129	143	158	165	122
75°	50	53	53	48	43	54
85°	6	6	4	4	3	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.4	508.4	508.4	508.4	508.4
2.5°	509.2	509.2	508.4	506.2	505.5
5°	506.2	505.5	505.5	505.5	506.2
7.5°	501.8	501.8	501.8	502.6	503.3
10°	496.0	496.0	496.7	498.2	499.6
12.5°	488.7	489.4	490.9	493.8	496.0
15°	479.2	479.9	482.8	487.9	490.9
17.5°	468.2	470.4	474.8	480.6	485.0
20°	455.8	457.9	463.8	471.1	476.2
22.5°	442.6	444.8	452.1	460.9	466.7
25°	428.0	430.2	439.7	450.6	457.2
27.5°	411.9	414.8	426.5	438.2	446.2
30°	395.0	398.7	410.4	425.0	433.8
32.5°	378.2	382.6	395.0	411.9	420.6
35°	360.7	365.0	379.7	397.2	407.5
37.5°	341.6	346.8	362.1	383.3	393.6
40°	323.3	328.5	345.3	368.0	378.9
42.5°	304.3	310.2	327.7	351.1	363.6
45°	283.8	291.2	309.4	333.6	346.0
47.5°	264.1	270.7	290.4	315.3	328.5
50°	244.3	251.7	271.4	297.0	310.9
52.5°	224.6	231.2	251.7	277.3	291.9
55°	204.1	210.7	230.4	256.8	270.7
57.5°	183.6	191.7	210.0	235.6	250.9
60°	162.4	169.7	188.7	214.3	226.8
62.5°	142.7	149.2	165.3	189.5	195.3
65°	122.9	128.8	142.7	158.0	164.6
67.5°	104.6	109.0	121.4	131.7	134.6
70°	84.9	89.2	97.3	103.1	101.7
72.5°	67.3	70.2	75.3	74.6	71.0
75°	49.7	52.7	53.4	48.3	43.2
77.5°	35.1	36.6	34.4	27.1	21.9
80°	21.9	22.7	19.0	11.7	10.2
82.5°	12.4	12.4	8.8	7.3	5.9
85°	5.9	5.9	4.4	3.7	2.9
87.5°	2.2	2.2	1.5	1.5	1.5
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	11.69	13.27	12.06	13.59	13.90	13.27	14.85	13.64	15.17	15.48
	3H	13.03	14.45	13.41	14.77	15.13	14.54	15.96	14.92	16.29	16.65
	4H	13.40	14.73	13.80	15.07	15.45	14.74	16.07	15.14	16.42	16.79
	6H	13.56	14.79	13.97	15.15	15.55	14.73	15.96	15.15	16.33	16.72
	8H	13.58	14.74	14.00	15.13	15.53	14.71	15.88	15.13	16.27	16.67
	12H	13.57	14.69	14.00	15.07	15.50	14.68	15.80	15.11	16.18	16.61
4H	2H	12.36	13.69	12.76	14.04	14.41	13.65	14.98	14.05	15.33	15.71
	3H	13.86	14.96	14.27	15.36	15.76	15.09	16.19	15.50	16.59	16.99
	4H	14.30	15.29	14.73	15.70	16.14	15.34	16.33	15.77	16.74	17.18
	6H	14.52	15.38	14.98	15.82	16.28	15.37	16.23	15.82	16.67	17.13
	8H	14.55	15.35	15.01	15.79	16.26	15.34	16.14	15.80	16.59	17.05
	12H	14.55	15.27	15.03	15.74	16.21	15.32	16.03	15.80	16.51	16.98
8H	4H	14.46	15.26	14.92	15.70	16.17	15.43	16.23	15.89	16.67	17.14
	6H	14.72	15.37	15.21	15.86	16.34	15.46	16.12	15.95	16.61	17.08
	8H	14.76	15.35	15.27	15.85	16.34	15.43	16.02	15.95	16.53	17.02
	12H	14.78	15.30	15.29	15.79	16.35	15.42	15.94	15.93	16.43	16.99
12H	4H	14.44	15.15	14.92	15.63	16.10	15.41	16.13	15.89	16.60	17.07
	6H	14.69	15.28	15.20	15.79	16.27	15.43	16.02	15.94	16.53	17.02
	8H	14.75	15.27	15.26	15.77	16.33	15.43	15.95	15.94	16.44	17.00