

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: P1498279

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498279
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-40-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

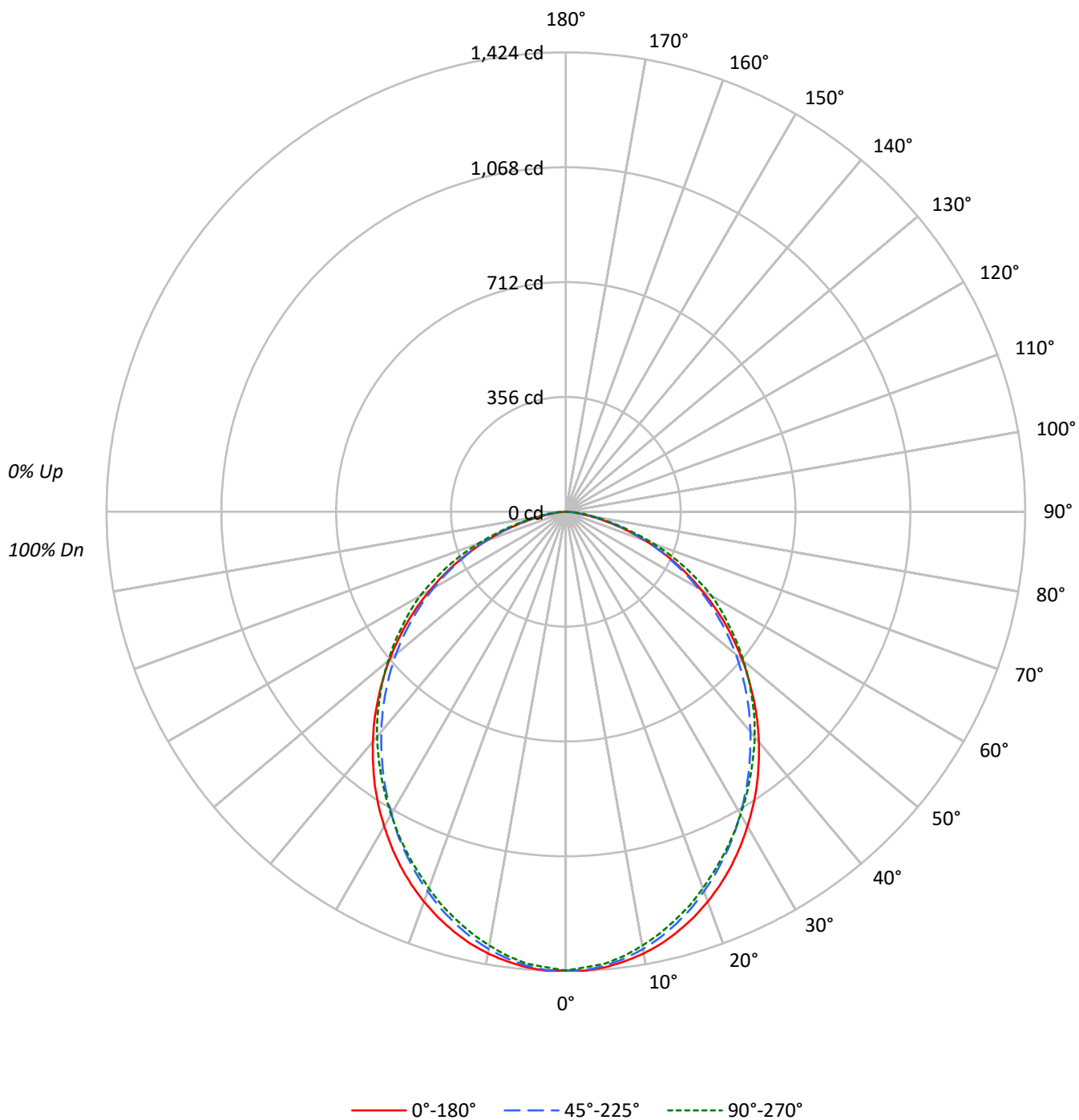
Lumens per Lamp: N/A
Luminaire Lumens: 3419.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		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°	3826	3826	3826
5°	3827	3814	3797
10°	3799	3762	3732
15°	3750	3683	3649
20°	3683	3585	3556
25°	3600	3479	3461
30°	3499	3359	3367
35°	3393	3246	3279
40°	3271	3126	3198
45°	3134	3007	3106
50°	2990	2879	3010
55°	2822	2728	2905
60°	2615	2554	2808
65°	2376	2323	2588
70°	2059	2076	2272
75°	1639	1742	1812
80°	1130	1311	1387
85°	627	976	1247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.9
10°-20°	373.0	10.9
20°-30°	543.0	15.9
30°-40°	626.2	18.3
40°-50°	621.0	18.2
50°-60°	532.4	15.6
60°-70°	374.2	10.9
70°-80°	178.3	5.2
80°-90°	37.4	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°	1049.5	30.7
0°-40°	1675.7	49.0
0°-60°	2829.1	82.7
0°-90°	3419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1417	1416	1412	1403	1406	134
15°	1346	1340	1322	1307	1310	379
25°	1212	1197	1172	1161	1166	558
35°	1033	1012	988	989	998	645
45°	824	805	790	805	816	635
55°	601	584	582	604	619	537
65°	373	360	365	394	406	369
75°	158	152	168	176	174	170
85°	20	24	32	38	40	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.9	1421.9	1421.9	1421.9	1421.9
2.5°	1423.6	1424.7	1421.9	1411.7	1413.2
5°	1416.9	1415.6	1411.8	1402.7	1405.8
7.5°	1405.5	1403.7	1396.8	1386.3	1388.4
10°	1390.4	1386.9	1376.7	1363.7	1365.7
12.5°	1370.8	1366.2	1352.2	1337.7	1340.0
15°	1346.2	1339.6	1321.9	1307.3	1309.7
17.5°	1318.0	1310.9	1289.7	1273.8	1278.7
20°	1286.1	1276.1	1252.0	1237.5	1241.9
22.5°	1251.1	1238.4	1213.4	1199.7	1203.8
25°	1212.4	1196.9	1171.7	1161.0	1165.6
27.5°	1170.6	1153.7	1128.4	1119.0	1125.6
30°	1126.2	1108.1	1081.0	1076.3	1083.5
32.5°	1080.6	1061.6	1035.2	1034.0	1041.3
35°	1032.9	1011.9	988.1	989.4	998.2
37.5°	981.7	961.8	938.5	946.1	954.6
40°	931.2	910.5	890.0	900.4	910.3
42.5°	878.6	858.8	840.7	853.3	864.8
45°	823.6	805.3	790.2	805.1	816.1
47.5°	768.6	750.3	739.3	756.0	768.6
50°	714.1	696.8	687.7	706.7	719.1
52.5°	657.0	640.4	635.6	655.3	670.4
55°	601.4	584.5	581.5	603.8	619.3
57.5°	544.2	531.0	528.6	553.5	572.4
60°	485.9	472.7	474.5	504.3	521.7
62.5°	429.1	416.0	418.9	452.2	463.9
65°	373.2	360.1	364.8	393.8	406.4
67.5°	318.1	305.9	315.2	341.8	349.8
70°	261.7	250.9	263.8	285.5	288.8
72.5°	209.0	199.6	215.6	229.6	229.5
75°	157.6	152.2	167.5	175.6	174.3
77.5°	112.7	109.9	123.1	127.6	126.7
80°	72.9	74.6	84.6	87.7	89.5
82.5°	42.4	45.9	53.5	61.6	63.4
85°	20.3	24.5	31.6	37.9	40.4
87.5°	7.0	9.8	13.1	14.5	14.1
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	15.75	17.34	16.12	17.65	17.96
	3H	16.88	18.31	17.26	18.63	18.99	17.36	18.78	17.73	19.11	19.47
	4H	17.30	18.64	17.70	18.99	19.37	17.82	19.16	18.22	19.51	19.88
	6H	17.52	18.76	17.93	19.12	19.51	18.08	19.31	18.49	19.68	20.07
	8H	17.55	18.73	17.98	19.12	19.52	18.15	19.33	18.57	19.72	20.12
	12H	17.55	18.68	17.98	19.07	19.49	18.20	19.33	18.63	19.71	20.14
4H	2H	15.97	17.31	16.37	17.66	18.03	16.23	17.56	16.62	17.91	18.29
	3H	17.59	18.71	18.00	19.11	19.51	18.03	19.14	18.44	19.54	19.94
	4H	18.10	19.10	18.53	19.52	19.95	18.60	19.61	19.03	20.02	20.46
	6H	18.39	19.27	18.85	19.71	20.17	18.95	19.83	19.41	20.27	20.73
	8H	18.45	19.26	18.91	19.70	20.17	19.06	19.87	19.52	20.31	20.78
	12H	18.47	19.20	18.95	19.67	20.14	19.14	19.87	19.62	20.34	20.81
8H	4H	18.32	19.13	18.78	19.58	20.04	18.77	19.59	19.24	20.03	20.50
	6H	18.67	19.35	19.17	19.84	20.31	19.20	19.87	19.69	20.36	20.84
	8H	18.76	19.36	19.27	19.87	20.36	19.35	19.95	19.86	20.46	20.95
	12H	18.81	19.34	19.32	19.83	20.40	19.48	20.02	19.99	20.51	21.07
12H	4H	18.33	19.06	18.81	19.53	20.00	18.77	19.50	19.25	19.98	20.45
	6H	18.69	19.29	19.20	19.80	20.29	19.20	19.80	19.71	20.31	20.80
	8H	18.81	19.35	19.32	19.84	20.40	19.39	19.92	19.90	20.42	20.98