

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: P1498696

Luminaire Tested: MAE-G-2-120-3LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

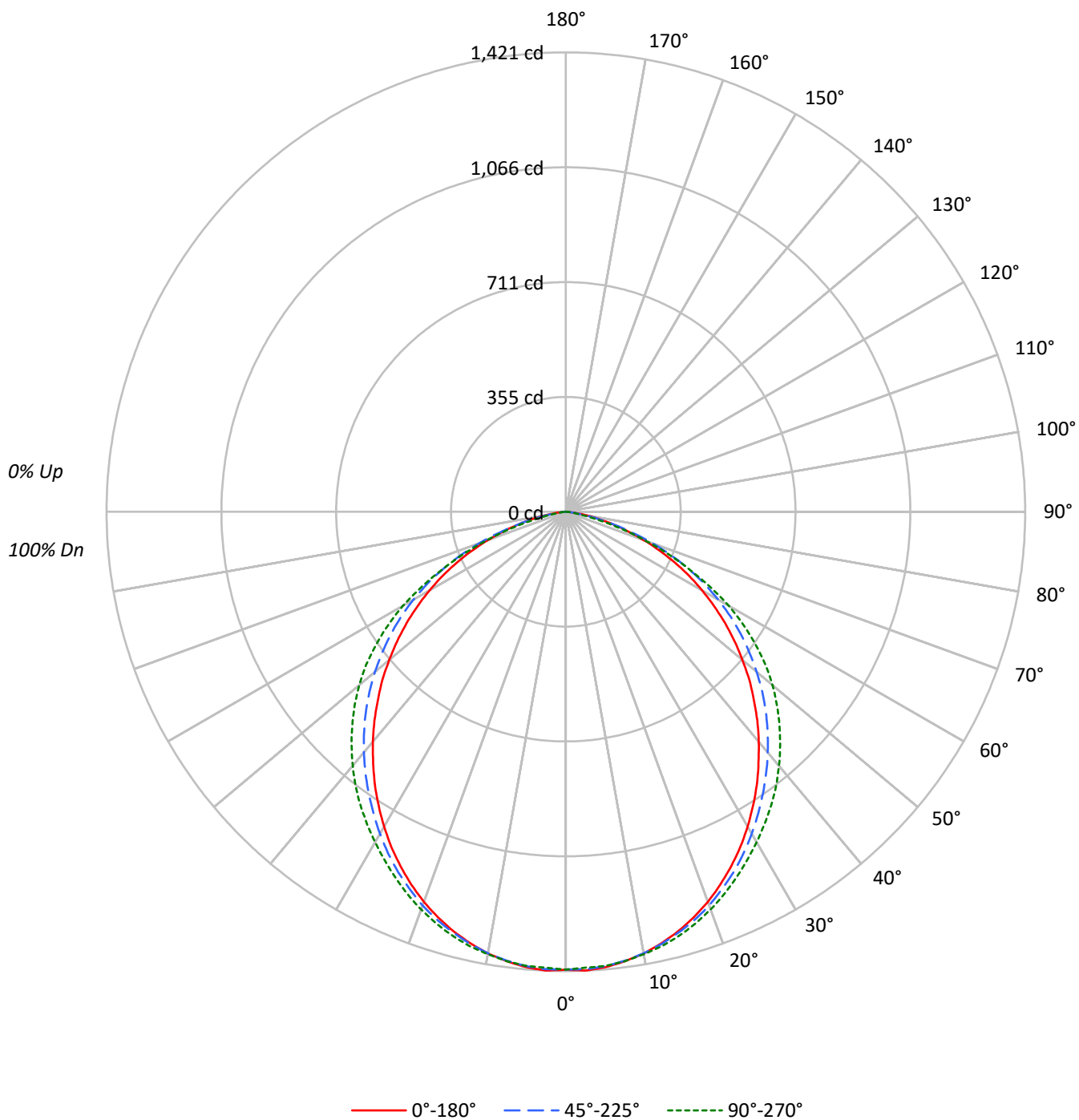
Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3811	3811	3811
5°	3819	3811	3809
10°	3791	3789	3798
15°	3742	3754	3782
20°	3677	3711	3749
25°	3592	3649	3707
30°	3494	3574	3668
35°	3385	3492	3640
40°	3262	3413	3603
45°	3129	3329	3557
50°	2984	3226	3494
55°	2823	3102	3360
60°	2620	2930	3135
65°	2366	2672	2685
70°	2020	2244	2087
75°	1586	1638	1284
80°	1035	841	497
85°	497	333	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3557 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	3.7
10°-20°	379.7	10.6
20°-30°	564.8	15.7
30°-40°	665.5	18.5
40°-50°	674.8	18.8
50°-60°	588.0	16.4
60°-70°	402.1	11.2
70°-80°	161.5	4.5
80°-90°	18.7	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°	1078.3	30.0
0°-40°	1743.8	48.6
0°-60°	3006.6	83.8
0°-90°	3589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1414	1405	1411	1409	1410	134
15°	1343	1338	1348	1353	1357	378
25°	1210	1210	1229	1238	1248	557
35°	1030	1035	1063	1089	1108	644
45°	822	833	875	914	935	635
55°	602	614	661	703	716	537
65°	372	388	420	423	422	367
75°	152	163	158	135	124	164
85°	16	14	11	10	8	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416.1	1416.1	1416.1	1416.1	1416.1
2.5°	1420.6	1411.1	1416.1	1415.0	1411.4
5°	1413.7	1405.2	1410.8	1409.2	1410.1
7.5°	1402.6	1394.8	1400.6	1400.3	1401.9
10°	1387.2	1379.4	1386.6	1387.9	1389.9
12.5°	1366.9	1360.4	1369.2	1371.8	1375.7
15°	1343.3	1337.5	1347.6	1353.2	1357.4
17.5°	1315.8	1310.9	1324.0	1329.3	1335.1
20°	1284.1	1280.5	1295.9	1300.8	1309.3
22.5°	1248.7	1246.8	1262.8	1270.3	1280.1
25°	1209.7	1210.1	1229.1	1238.0	1248.4
27.5°	1168.9	1169.5	1191.1	1203.5	1214.7
30°	1124.6	1126.6	1150.2	1165.6	1180.3
32.5°	1077.8	1081.7	1107.3	1128.3	1144.6
35°	1030.3	1034.9	1063.1	1089.2	1107.9
37.5°	979.0	986.5	1018.3	1049.4	1068.6
40°	928.5	936.0	971.7	1006.1	1025.8
42.5°	876.5	886.0	924.0	962.2	981.2
45°	822.1	833.2	874.8	914.1	934.7
47.5°	770.0	779.9	823.7	864.7	886.0
50°	712.7	725.2	770.7	813.6	834.6
52.5°	658.1	669.5	716.3	760.3	779.2
55°	601.8	614.5	661.1	702.6	716.1
57.5°	544.1	559.5	604.4	639.1	651.9
60°	486.9	502.2	544.5	573.0	582.5
62.5°	429.9	446.3	483.3	502.2	502.2
65°	371.6	388.3	419.7	423.0	421.7
67.5°	313.3	330.1	353.9	348.0	344.1
70°	256.7	271.1	285.2	274.3	265.2
72.5°	201.7	215.4	217.7	202.0	190.5
75°	152.5	162.8	157.5	135.3	123.5
77.5°	106.4	112.3	101.2	78.6	69.1
80°	66.8	69.4	54.3	38.3	32.1
82.5°	36.0	36.3	23.6	19.3	18.0
85°	16.1	14.4	10.8	9.5	8.5
87.5°	5.6	4.9	3.9	3.6	3.0
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	15.57	17.16	15.94	17.47	17.79	16.56	18.14	16.92	18.45	18.77
	3H	16.98	18.41	17.36	18.73	19.09	17.76	19.18	18.14	19.51	19.87
	4H	17.38	18.71	17.78	19.06	19.44	17.98	19.31	18.38	19.66	20.04
	6H	17.55	18.78	17.96	19.15	19.54	18.00	19.23	18.41	19.59	19.98
	8H	17.57	18.74	17.99	19.13	19.53	17.97	19.15	18.40	19.54	19.94
	12H	17.56	18.68	17.99	19.06	19.49	17.95	19.07	18.38	19.45	19.88
4H	2H	16.24	17.58	16.64	17.93	18.30	17.04	18.37	17.43	18.72	19.09
	3H	17.81	18.92	18.22	19.32	19.72	18.40	19.51	18.81	19.91	20.31
	4H	18.29	19.28	18.72	19.70	20.14	18.68	19.67	19.11	20.09	20.52
	6H	18.53	19.39	18.99	19.83	20.29	18.73	19.59	19.18	20.03	20.49
	8H	18.55	19.36	19.02	19.80	20.27	18.70	19.51	19.17	19.95	20.42
	12H	18.55	19.27	19.03	19.75	20.22	18.68	19.40	19.17	19.88	20.35
8H	4H	18.44	19.24	18.90	19.68	20.15	18.80	19.60	19.26	20.04	20.51
	6H	18.71	19.37	19.21	19.86	20.34	18.86	19.52	19.35	20.01	20.48
	8H	18.75	19.34	19.26	19.85	20.34	18.83	19.43	19.35	19.93	20.42
	12H	18.76	19.29	19.27	19.78	20.34	18.82	19.34	19.33	19.83	20.40
12H	4H	18.42	19.14	18.90	19.61	20.08	18.78	19.50	19.27	19.98	20.45
	6H	18.68	19.27	19.19	19.78	20.27	18.83	19.43	19.35	19.93	20.42
	8H	18.75	19.27	19.26	19.76	20.32	18.83	19.36	19.34	19.85	20.41