

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P488948

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-50-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P488948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-24-2-INS-A12125-LD4-3LO-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

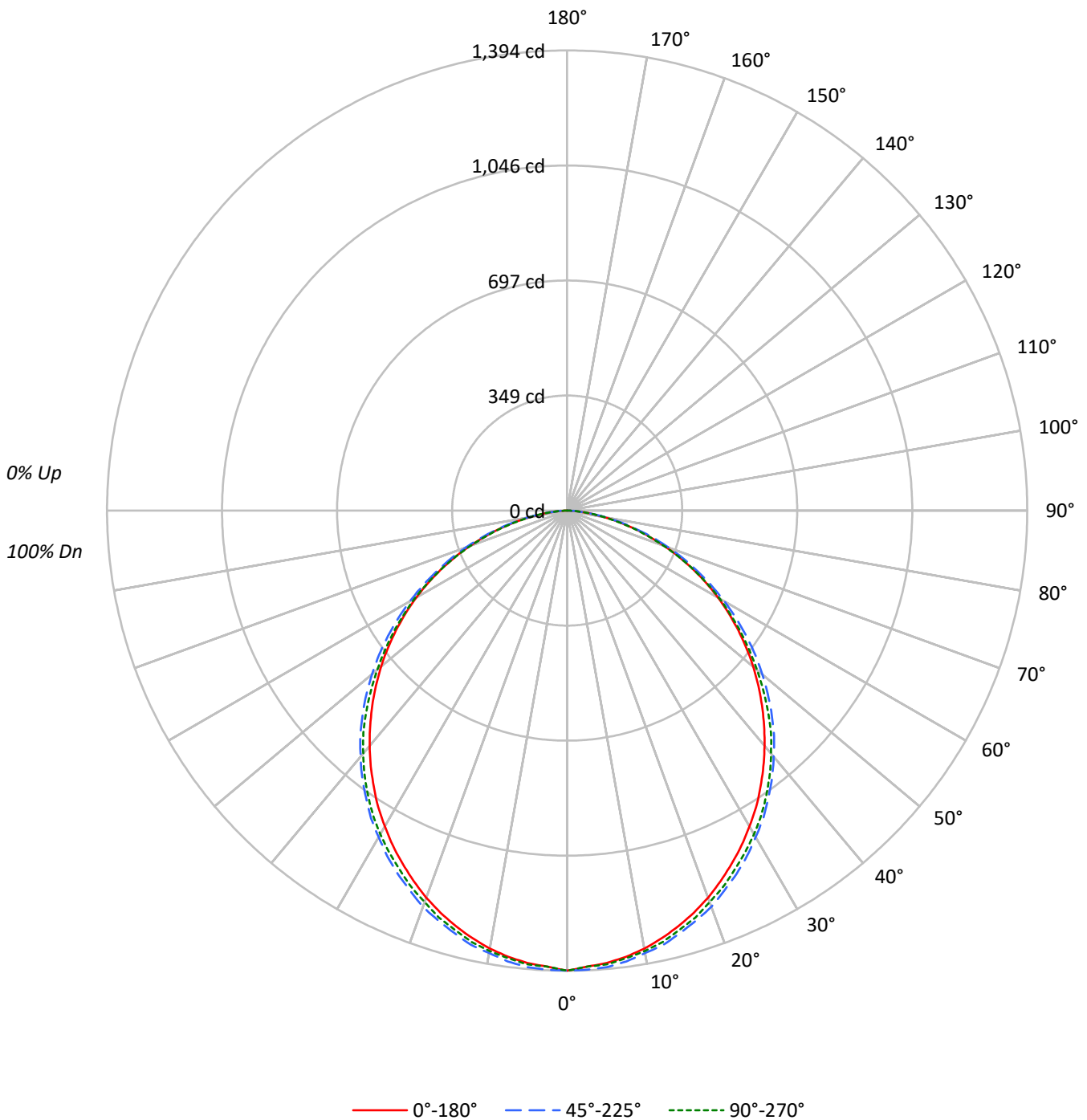
Lumens per Lamp: N/A  
Luminaire Lumens: 3664.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3750	3750	3750
5°	3716	3750	3727
10°	3681	3719	3701
15°	3631	3689	3663
20°	3574	3658	3614
25°	3504	3605	3564
30°	3433	3549	3517
35°	3356	3489	3456
40°	3269	3419	3376
45°	3177	3337	3274
50°	3081	3230	3146
55°	2969	3109	3013
60°	2843	2961	2870
65°	2679	2782	2681
70°	2465	2565	2438
75°	2171	2269	2138
80°	1764	1841	1743
85°	1229	1309	1278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	3.6
10°-20°	371.9	10.2
20°-30°	554.7	15.1
30°-40°	657.4	17.9
40°-50°	665.2	18.2
50°-60°	580.9	15.9
60°-70°	424.5	11.6
70°-80°	225.9	6.2
80°-90°	52.2	1.4
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°	1057.9	28.9
0°-40°	1715.3	46.8
0°-60°	2961.4	80.8
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1376	1378	1388	1392	1380	130
15°	1303	1312	1324	1332	1315	367
25°	1180	1195	1214	1219	1200	544
35°	1022	1038	1062	1069	1052	639
45°	835	850	877	878	860	644
55°	633	646	663	653	642	566
65°	421	429	437	428	421	416
75°	209	214	218	210	206	222
85°	40	40	42	43	41	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.7	1393.7	1393.7	1393.7	1393.7
2.5°	1382.8	1387.3	1391.9	1393.9	1382.6
5°	1375.5	1378.1	1388.4	1391.6	1379.9
7.5°	1363.6	1367.5	1377.5	1379.0	1367.7
10°	1347.3	1354.3	1361.0	1368.2	1354.5
12.5°	1326.6	1336.0	1347.3	1348.6	1338.2
15°	1303.2	1311.9	1324.2	1332.2	1315.0
17.5°	1277.1	1285.5	1301.5	1302.9	1292.4
20°	1247.9	1258.3	1277.5	1280.8	1262.1
22.5°	1214.8	1228.9	1244.8	1248.0	1234.2
25°	1180.1	1194.6	1214.3	1218.8	1200.4
27.5°	1143.8	1157.7	1179.9	1183.1	1167.6
30°	1104.8	1117.9	1142.3	1147.7	1131.9
32.5°	1065.4	1078.4	1105.4	1109.9	1094.5
35°	1021.5	1037.5	1062.0	1069.4	1052.1
37.5°	976.8	992.3	1020.2	1026.9	1008.3
40°	930.5	945.9	973.3	978.8	961.0
42.5°	883.1	898.5	927.8	928.7	913.9
45°	834.8	849.6	876.9	877.6	860.3
47.5°	785.7	800.6	825.0	822.3	806.0
50°	736.0	750.3	771.6	766.1	751.4
52.5°	684.6	698.4	718.6	709.6	695.8
55°	632.9	645.7	662.6	653.0	642.2
57.5°	580.8	593.7	606.7	596.9	587.6
60°	528.2	539.6	550.2	540.3	533.2
62.5°	474.8	484.5	493.7	484.3	477.6
65°	420.8	429.4	436.9	428.2	421.1
67.5°	367.1	374.3	381.3	372.3	364.9
70°	313.3	319.6	326.0	316.7	309.9
72.5°	260.3	265.9	271.5	262.5	256.6
75°	208.8	213.6	218.2	210.3	205.6
77.5°	159.6	163.6	166.8	161.8	157.3
80°	113.8	116.9	118.8	116.7	112.5
82.5°	73.2	75.4	76.4	76.2	73.5
85°	39.8	40.5	42.4	42.8	41.4
87.5°	15.4	16.4	16.8	18.2	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)