

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: P488922

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-40-120-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: P488922  
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-LD4-2STD-40-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

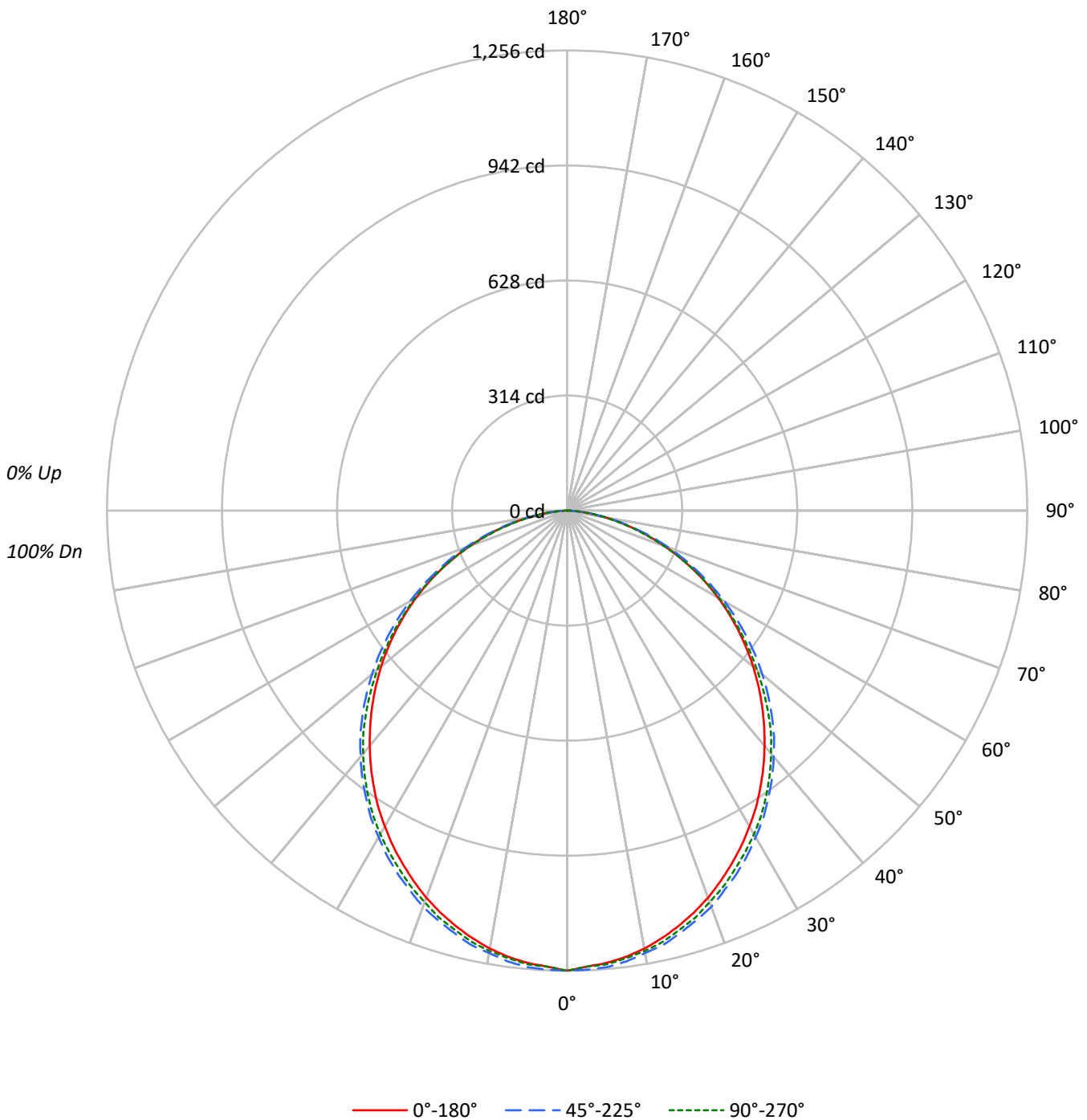
Lumens per Lamp: N/A  
Luminaire Lumens: 3301.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	3379	3379	3379
5°	3348	3379	3358
10°	3317	3351	3334
15°	3271	3324	3300
20°	3220	3296	3256
25°	3157	3249	3211
30°	3093	3198	3169
35°	3023	3143	3114
40°	2945	3080	3041
45°	2862	3006	2950
50°	2776	2910	2834
55°	2675	2800	2715
60°	2561	2668	2585
65°	2414	2506	2416
70°	2221	2311	2197
75°	1956	2044	1926
80°	1590	1658	1571
85°	1105	1179	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	3.6
10°-20°	335.1	10.2
20°-30°	499.8	15.1
30°-40°	592.3	17.9
40°-50°	599.3	18.2
50°-60°	523.4	15.9
60°-70°	382.5	11.6
70°-80°	203.5	6.2
80°-90°	47.0	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°	953.2	28.9
0°-40°	1545.4	46.8
0°-60°	2668.1	80.8
0°-90°	3301.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3301.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1239	1242	1251	1254	1243	118
15°	1174	1182	1193	1200	1185	331
25°	1063	1076	1094	1098	1082	490
35°	920	935	957	964	948	576
45°	752	765	790	791	775	580
55°	570	582	597	588	579	510
65°	379	387	394	386	379	375
75°	188	192	197	189	185	200
85°	36	36	38	39	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1255.6	1255.6	1255.6	1255.6	1255.6
2.5°	1245.8	1249.9	1254.1	1255.9	1245.7
5°	1239.3	1241.6	1250.9	1253.8	1243.2
7.5°	1228.5	1232.1	1241.1	1242.4	1232.2
10°	1213.9	1220.2	1226.2	1232.7	1220.3
12.5°	1195.2	1203.7	1213.9	1215.1	1205.6
15°	1174.1	1182.0	1193.1	1200.3	1184.7
17.5°	1150.6	1158.2	1172.5	1173.9	1164.4
20°	1124.3	1133.7	1151.0	1154.0	1137.1
22.5°	1094.4	1107.1	1121.5	1124.4	1112.0
25°	1063.2	1076.3	1094.1	1098.1	1081.5
27.5°	1030.5	1043.0	1063.1	1065.9	1051.9
30°	995.4	1007.2	1029.2	1034.0	1019.8
32.5°	959.8	971.6	995.9	1000.0	986.1
35°	920.3	934.7	956.8	963.5	947.9
37.5°	880.0	894.0	919.1	925.2	908.4
40°	838.3	852.2	876.9	881.9	865.8
42.5°	795.7	809.5	835.9	836.7	823.4
45°	752.1	765.4	790.0	790.7	775.1
47.5°	707.9	721.3	743.3	740.8	726.2
50°	663.1	676.0	695.2	690.2	677.0
52.5°	616.8	629.2	647.4	639.3	626.9
55°	570.2	581.8	596.9	588.3	578.6
57.5°	523.3	534.9	546.6	537.8	529.4
60°	475.9	486.1	495.7	486.8	480.4
62.5°	427.8	436.6	444.8	436.3	430.3
65°	379.1	386.8	393.6	385.8	379.4
67.5°	330.7	337.3	343.5	335.4	328.8
70°	282.3	287.9	293.7	285.3	279.2
72.5°	234.6	239.5	244.6	236.5	231.2
75°	188.1	192.4	196.6	189.4	185.2
77.5°	143.8	147.4	150.3	145.7	141.7
80°	102.6	105.3	107.0	105.2	101.4
82.5°	65.9	67.9	68.8	68.7	66.2
85°	35.8	36.5	38.2	38.6	37.3
87.5°	13.9	14.8	15.2	16.4	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)