

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: P488361

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-50-120-EDD**

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: P488361  
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-12-2-INS-A12125-LD4-2HI-50-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

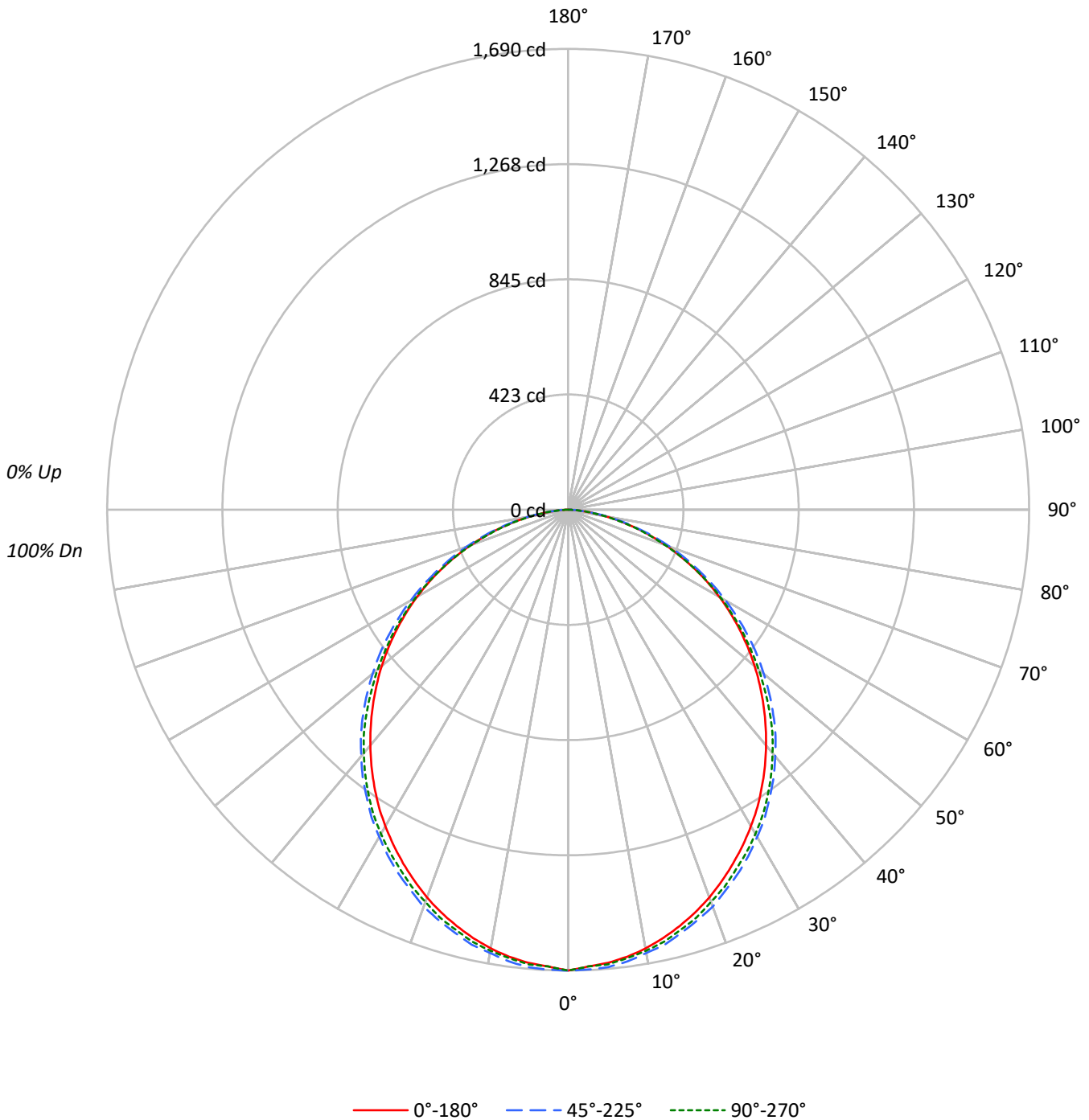
Lumens per Lamp: N/A  
Luminaire Lumens: 4443.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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: 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°	9096	9096	9096
5°	9012	9097	9041
10°	8929	9020	8977
15°	8806	8948	8885
20°	8667	8873	8766
25°	8498	8745	8644
30°	8327	8609	8530
35°	8139	8462	8383
40°	7928	8292	8188
45°	7705	8094	7941
50°	7474	7834	7630
55°	7203	7539	7308
60°	6895	7182	6960
65°	6499	6748	6504
70°	5980	6220	5914
75°	5265	5504	5184
80°	4280	4463	4231
85°	2976	3174	3100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	3.6
10°-20°	451.1	10.2
20°-30°	672.7	15.1
30°-40°	797.2	17.9
40°-50°	806.7	18.2
50°-60°	704.5	15.9
60°-70°	514.8	11.6
70°-80°	273.9	6.2
80°-90°	63.3	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°	1283.0	28.9
0°-40°	2080.2	46.8
0°-60°	3591.4	80.8
0°-90°	4443.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4443.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1668	1671	1684	1688	1673	158
15°	1580	1591	1606	1616	1595	446
25°	1431	1449	1473	1478	1456	659
35°	1239	1258	1288	1297	1276	775
45°	1012	1030	1063	1064	1043	781
55°	768	783	804	792	779	686
65°	510	521	530	519	511	505
75°	253	259	265	255	249	269
85°	48	49	51	52	50	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1676.9	1682.4	1688.0	1690.5	1676.7
5°	1668.1	1671.3	1683.8	1687.6	1673.4
7.5°	1653.7	1658.4	1670.6	1672.3	1658.6
10°	1633.9	1642.4	1650.5	1659.3	1642.6
12.5°	1608.8	1620.2	1633.9	1635.5	1622.8
15°	1580.4	1591.0	1605.9	1615.6	1594.7
17.5°	1548.7	1558.9	1578.3	1580.1	1567.4
20°	1513.3	1526.0	1549.2	1553.3	1530.6
22.5°	1473.2	1490.2	1509.6	1513.5	1496.8
25°	1431.1	1448.7	1472.6	1478.1	1455.7
27.5°	1387.1	1404.0	1430.9	1434.8	1415.9
30°	1339.9	1355.7	1385.3	1391.8	1372.6
32.5°	1292.0	1307.8	1340.6	1346.0	1327.4
35°	1238.8	1258.2	1287.9	1296.9	1275.9
37.5°	1184.6	1203.4	1237.2	1245.3	1222.8
40°	1128.4	1147.0	1180.3	1187.0	1165.4
42.5°	1071.0	1089.6	1125.2	1126.3	1108.3
45°	1012.3	1030.3	1063.4	1064.3	1043.3
47.5°	952.8	971.0	1000.5	997.2	977.5
50°	892.6	909.9	935.7	929.1	911.3
52.5°	830.3	847.0	871.5	860.6	843.8
55°	767.6	783.1	803.5	791.9	778.8
57.5°	704.4	720.0	735.7	723.9	712.6
60°	640.6	654.4	667.2	655.2	646.6
62.5°	575.8	587.6	598.7	587.3	579.2
65°	510.3	520.7	529.9	519.3	510.7
67.5°	445.2	454.0	462.4	451.5	442.5
70°	380.0	387.6	395.3	384.1	375.8
72.5°	315.7	322.4	329.3	318.4	311.2
75°	253.2	259.0	264.7	255.0	249.3
77.5°	193.5	198.5	202.3	196.2	190.7
80°	138.1	141.8	144.0	141.6	136.5
82.5°	88.7	91.4	92.6	92.4	89.1
85°	48.2	49.1	51.4	51.9	50.2
87.5°	18.7	19.9	20.4	22.0	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)