

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: P488897

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-35-120-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: P488897  
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-LD4-2HI-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

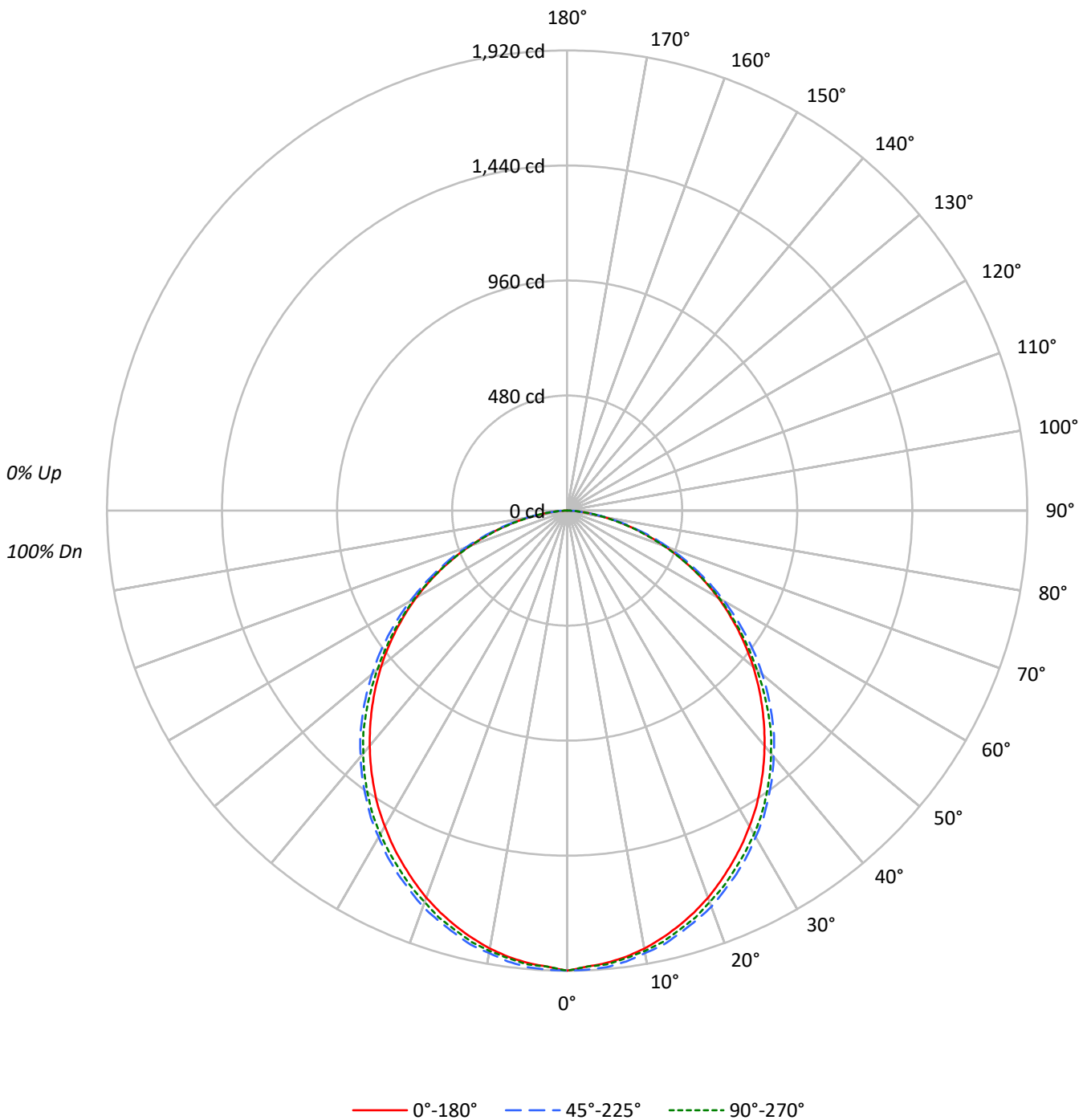
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5046.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 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): 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°	5165	5165	5165
5°	5118	5166	5134
10°	5071	5122	5097
15°	5000	5081	5046
20°	4922	5039	4978
25°	4826	4966	4909
30°	4728	4889	4844
35°	4622	4805	4760
40°	4502	4709	4649
45°	4375	4596	4509
50°	4244	4449	4333
55°	4090	4281	4150
60°	3916	4078	3953
65°	3691	3832	3693
70°	3396	3533	3358
75°	2990	3125	2944
80°	2430	2535	2402
85°	1692	1803	1760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.8	3.6
10°-20°	512.3	10.2
20°-30°	764.0	15.1
30°-40°	905.4	17.9
40°-50°	916.1	18.2
50°-60°	800.1	15.9
60°-70°	584.7	11.6
70°-80°	311.1	6.2
80°-90°	71.9	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°	1457.1	28.9
0°-40°	2362.5	46.8
0°-60°	4078.7	80.8
0°-90°	5046.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5046.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1894	1898	1912	1917	1900	180
15°	1795	1807	1824	1835	1811	506
25°	1625	1645	1672	1679	1653	749
35°	1407	1429	1463	1473	1449	880
45°	1150	1170	1208	1209	1185	887
55°	872	889	912	899	884	779
65°	580	591	602	590	580	574
75°	288	294	301	290	283	306
85°	55	56	58	59	57	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1904.5	1910.7	1917.1	1919.9	1904.3
5°	1894.5	1898.1	1912.3	1916.7	1900.5
7.5°	1878.1	1883.5	1897.3	1899.3	1883.7
10°	1855.7	1865.3	1874.5	1884.5	1865.5
12.5°	1827.1	1840.1	1855.7	1857.5	1843.1
15°	1794.9	1806.9	1823.9	1834.9	1811.1
17.5°	1758.9	1770.5	1792.5	1794.5	1780.1
20°	1718.7	1733.1	1759.5	1764.1	1738.3
22.5°	1673.1	1692.5	1714.5	1718.9	1699.9
25°	1625.3	1645.3	1672.5	1678.7	1653.3
27.5°	1575.3	1594.5	1625.1	1629.5	1608.1
30°	1521.7	1539.7	1573.3	1580.7	1558.9
32.5°	1467.3	1485.3	1522.5	1528.7	1507.5
35°	1406.9	1428.9	1462.7	1472.9	1449.1
37.5°	1345.3	1366.7	1405.1	1414.3	1388.7
40°	1281.5	1302.7	1340.5	1348.1	1323.5
42.5°	1216.3	1237.5	1277.9	1279.1	1258.7
45°	1149.7	1170.1	1207.7	1208.7	1184.9
47.5°	1082.1	1102.7	1136.3	1132.5	1110.1
50°	1013.7	1033.3	1062.7	1055.1	1034.9
52.5°	942.9	961.9	989.7	977.3	958.3
55°	871.7	889.3	912.5	899.3	884.5
57.5°	799.9	817.7	835.5	822.1	809.3
60°	727.6	743.2	757.7	744.1	734.4
62.5°	654.0	667.4	680.0	667.0	657.8
65°	579.6	591.4	601.8	589.8	580.0
67.5°	505.6	515.6	525.2	512.8	502.6
70°	431.6	440.2	449.0	436.2	426.8
72.5°	358.6	366.2	374.0	361.6	353.4
75°	287.6	294.2	300.6	289.6	283.2
77.5°	219.8	225.4	229.8	222.8	216.6
80°	156.8	161.0	163.6	160.8	155.0
82.5°	100.8	103.8	105.2	105.0	101.2
85°	54.8	55.8	58.4	59.0	57.0
87.5°	21.2	22.6	23.2	25.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)