

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: P488959

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-40-120-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: P488959  
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-LD4-3STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

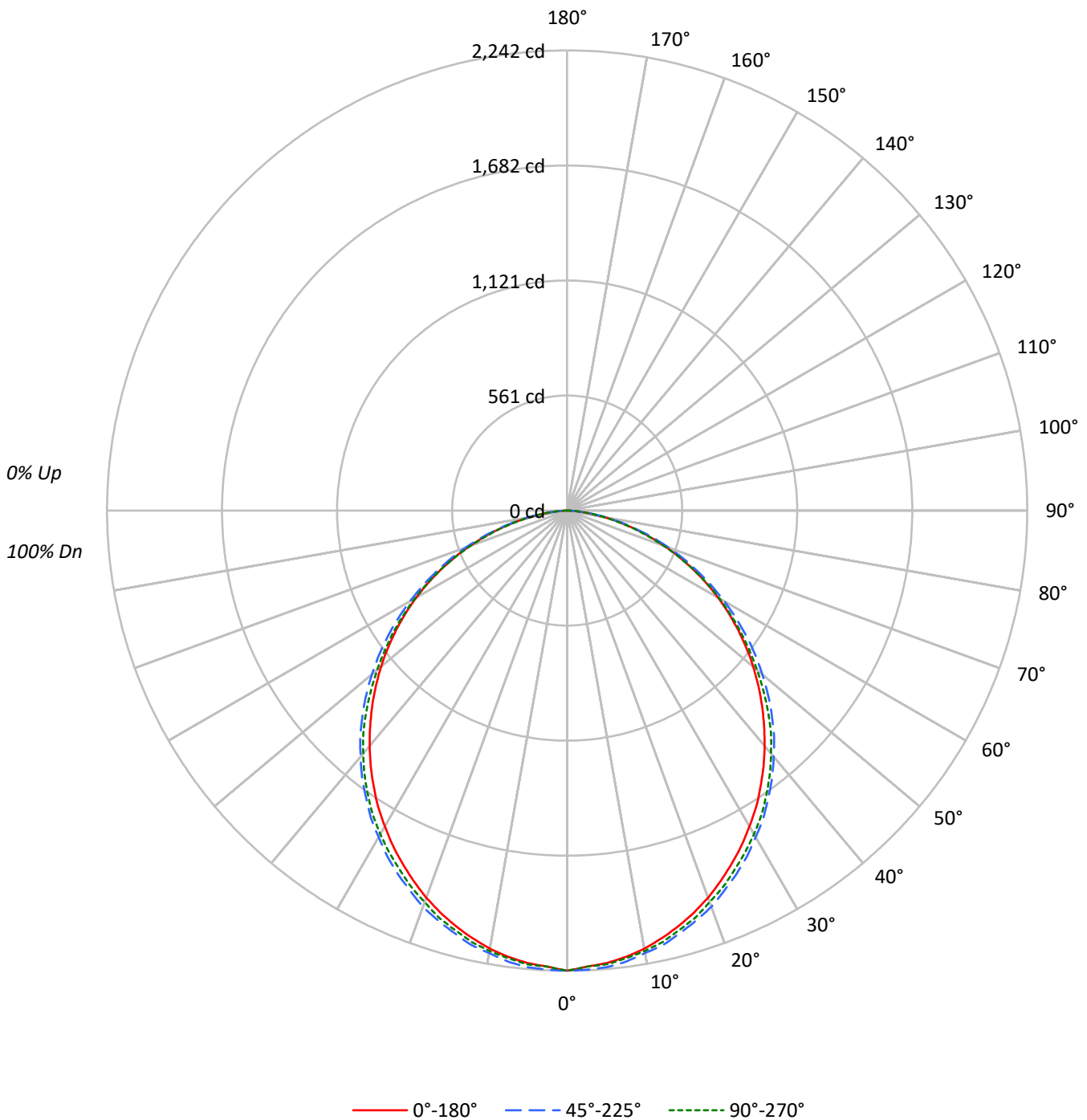
Lumens per Lamp: N/A  
Luminaire Lumens: 5893.2 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	6032	6032	6032
5°	5976	6032	5995
10°	5922	5981	5953
15°	5840	5934	5892
20°	5748	5884	5813
25°	5635	5799	5733
30°	5522	5709	5657
35°	5397	5611	5559
40°	5257	5499	5429
45°	5109	5367	5266
50°	4956	5196	5060
55°	4776	5000	4846
60°	4573	4762	4616
65°	4309	4474	4313
70°	3965	4125	3921
75°	3491	3649	3438
80°	2837	2960	2805
85°	1976	2106	2056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	3.6
10°-20°	598.2	10.2
20°-30°	892.3	15.1
30°-40°	1057.3	17.9
40°-50°	1069.9	18.2
50°-60°	934.4	15.9
60°-70°	682.8	11.6
70°-80°	363.3	6.2
80°-90°	84.0	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°	1701.6	28.9
0°-40°	2758.9	46.8
0°-60°	4763.2	80.8
0°-90°	5893.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5893.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2212	2217	2233	2238	2219	210
15°	2096	2110	2130	2143	2115	591
25°	1898	1921	1953	1960	1931	874
35°	1643	1669	1708	1720	1692	1027
45°	1343	1366	1410	1412	1384	1036
55°	1018	1039	1066	1050	1033	910
65°	677	691	703	689	677	670
75°	336	344	351	338	331	357
85°	64	65	68	69	67	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2224.0	2231.3	2238.8	2242.0	2223.8
5°	2212.4	2216.6	2233.2	2238.3	2219.4
7.5°	2193.2	2199.5	2215.6	2218.0	2199.8
10°	2167.1	2178.3	2189.0	2200.7	2178.5
12.5°	2133.7	2148.8	2167.1	2169.2	2152.3
15°	2096.1	2110.1	2129.9	2142.8	2115.0
17.5°	2054.0	2067.6	2093.3	2095.6	2078.8
20°	2007.1	2023.9	2054.7	2060.1	2030.0
22.5°	1953.8	1976.5	2002.2	2007.3	1985.1
25°	1898.0	1921.4	1953.1	1960.4	1930.7
27.5°	1839.6	1862.1	1897.8	1902.9	1877.9
30°	1777.0	1798.1	1837.3	1845.9	1820.5
32.5°	1713.5	1734.5	1778.0	1785.2	1760.5
35°	1643.0	1668.7	1708.1	1720.1	1692.3
37.5°	1571.1	1596.0	1640.9	1651.6	1621.7
40°	1496.6	1521.3	1565.5	1574.3	1545.6
42.5°	1420.4	1445.2	1492.4	1493.8	1469.9
45°	1342.6	1366.5	1410.4	1411.5	1383.8
47.5°	1263.7	1287.8	1327.0	1322.6	1296.4
50°	1183.8	1206.7	1241.1	1232.2	1208.6
52.5°	1101.2	1123.4	1155.8	1141.3	1119.1
55°	1018.0	1038.6	1065.7	1050.3	1033.0
57.5°	934.2	955.0	975.8	960.1	945.2
60°	849.6	867.9	884.9	869.0	857.6
62.5°	763.7	779.3	794.1	778.9	768.1
65°	676.8	690.6	702.7	688.7	677.3
67.5°	590.4	602.1	613.3	598.8	586.9
70°	504.0	514.0	524.3	509.4	498.4
72.5°	418.7	427.6	436.7	422.2	412.7
75°	335.8	343.5	351.0	338.2	330.7
77.5°	256.7	263.2	268.3	260.2	252.9
80°	183.1	188.0	191.0	187.8	181.0
82.5°	117.7	121.2	122.8	122.6	118.2
85°	64.0	65.2	68.2	68.9	66.6
87.5°	24.8	26.4	27.1	29.2	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)