

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: P488957

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-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: P488957  
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-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

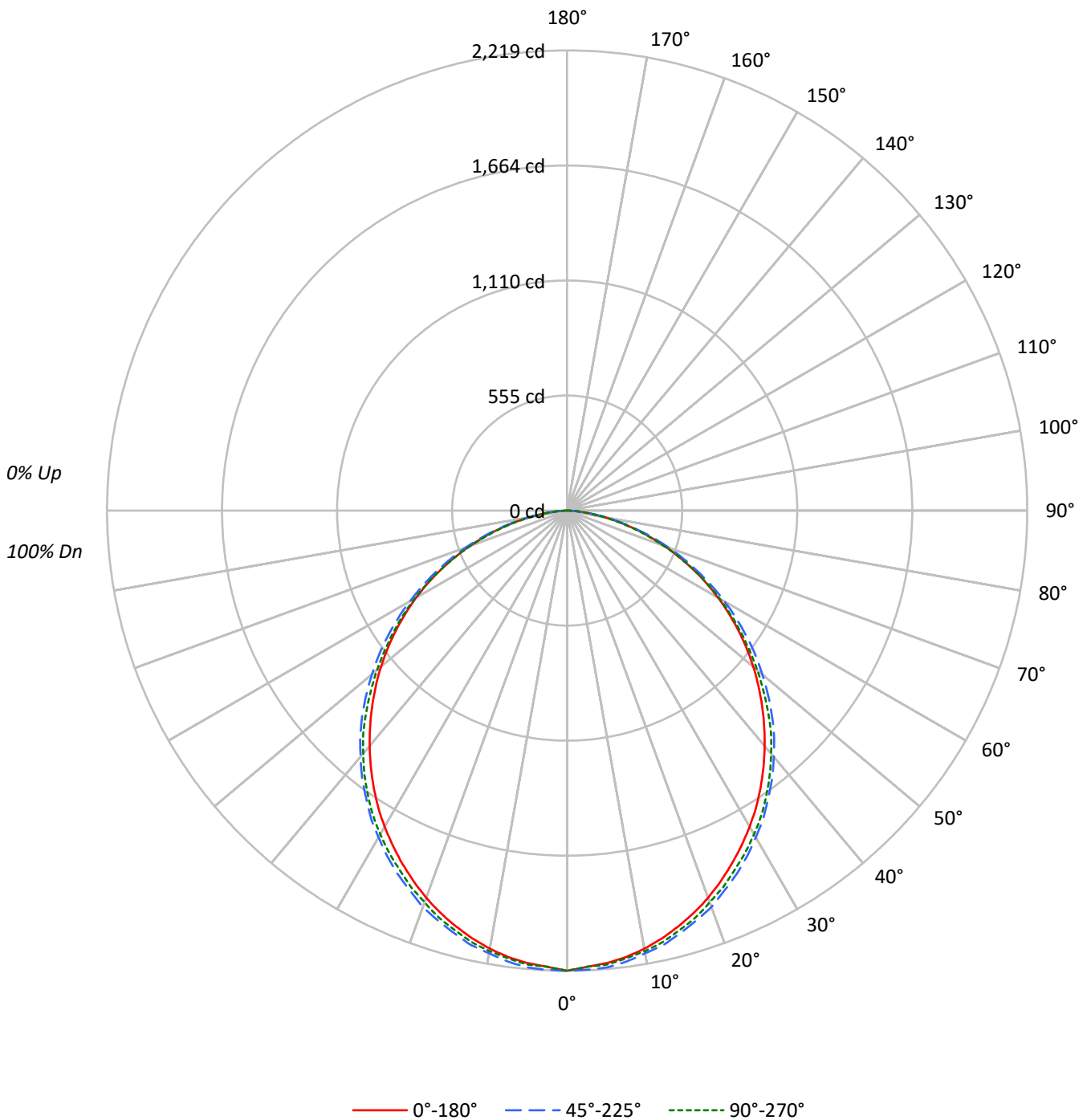
Lumens per Lamp: N/A  
Luminaire Lumens: 5834.9 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	5972	5972	5972
5°	5917	5973	5936
10°	5863	5922	5894
15°	5782	5875	5834
20°	5691	5826	5756
25°	5580	5742	5676
30°	5467	5652	5601
35°	5344	5556	5504
40°	5205	5445	5376
45°	5059	5314	5214
50°	4907	5144	5009
55°	4729	4950	4798
60°	4527	4715	4570
65°	4267	4430	4270
70°	3926	4084	3883
75°	3457	3613	3404
80°	2810	2930	2777
85°	1958	2084	2035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	3.6
10°-20°	592.3	10.2
20°-30°	883.4	15.1
30°-40°	1046.9	17.9
40°-50°	1059.3	18.2
50°-60°	925.1	15.9
60°-70°	676.0	11.6
70°-80°	359.7	6.2
80°-90°	83.1	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°	1684.8	28.9
0°-40°	2731.6	46.8
0°-60°	4716.0	80.8
0°-90°	5834.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5834.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2190	2195	2211	2216	2197	208
15°	2075	2089	2109	2122	2094	585
25°	1879	1902	1934	1941	1912	866
35°	1627	1652	1691	1703	1676	1017
45°	1329	1353	1396	1398	1370	1026
55°	1008	1028	1055	1040	1023	901
65°	670	684	696	682	671	663
75°	332	340	348	335	327	354
85°	63	64	68	68	66	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2219.4	2219.4	2219.4	2219.4	2219.4
2.5°	2202.0	2209.2	2216.6	2219.9	2201.8
5°	2190.5	2194.6	2211.1	2216.2	2197.4
7.5°	2171.5	2177.8	2193.7	2196.0	2178.0
10°	2145.6	2156.7	2167.4	2178.9	2157.0
12.5°	2112.6	2127.6	2145.6	2147.7	2131.1
15°	2075.3	2089.2	2108.9	2121.6	2094.1
17.5°	2033.7	2047.1	2072.6	2074.9	2058.2
20°	1987.2	2003.9	2034.4	2039.7	2009.9
22.5°	1934.5	1956.9	1982.4	1987.5	1965.5
25°	1879.2	1902.4	1933.8	1941.0	1911.6
27.5°	1821.4	1843.6	1879.0	1884.1	1859.4
30°	1759.5	1780.3	1819.1	1827.7	1802.5
32.5°	1696.6	1717.4	1760.4	1767.6	1743.0
35°	1626.7	1652.2	1691.2	1703.0	1675.5
37.5°	1555.5	1580.3	1624.7	1635.3	1605.7
40°	1481.8	1506.3	1550.0	1558.8	1530.3
42.5°	1406.4	1430.9	1477.6	1479.0	1455.4
45°	1329.4	1353.0	1396.4	1397.6	1370.1
47.5°	1251.2	1275.0	1313.9	1309.5	1283.6
50°	1172.1	1194.8	1228.8	1220.0	1196.6
52.5°	1090.3	1112.2	1144.4	1130.0	1108.1
55°	1008.0	1028.3	1055.1	1039.9	1022.7
57.5°	924.9	945.5	966.1	950.6	935.8
60°	841.2	859.3	876.1	860.4	849.1
62.5°	756.1	771.6	786.2	771.2	760.5
65°	670.1	683.8	695.8	681.9	670.6
67.5°	584.6	596.1	607.2	592.9	581.1
70°	499.0	508.9	519.1	504.3	493.5
72.5°	414.6	423.4	432.4	418.1	408.6
75°	332.5	340.1	347.5	334.8	327.4
77.5°	254.1	260.6	265.7	257.6	250.4
80°	181.3	186.1	189.1	185.9	179.2
82.5°	116.5	120.0	121.6	121.4	117.0
85°	63.4	64.5	67.5	68.2	65.9
87.5°	24.5	26.1	26.8	28.9	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)