

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: P489013

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-27-120-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: P489013  
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-LD4-5LO-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

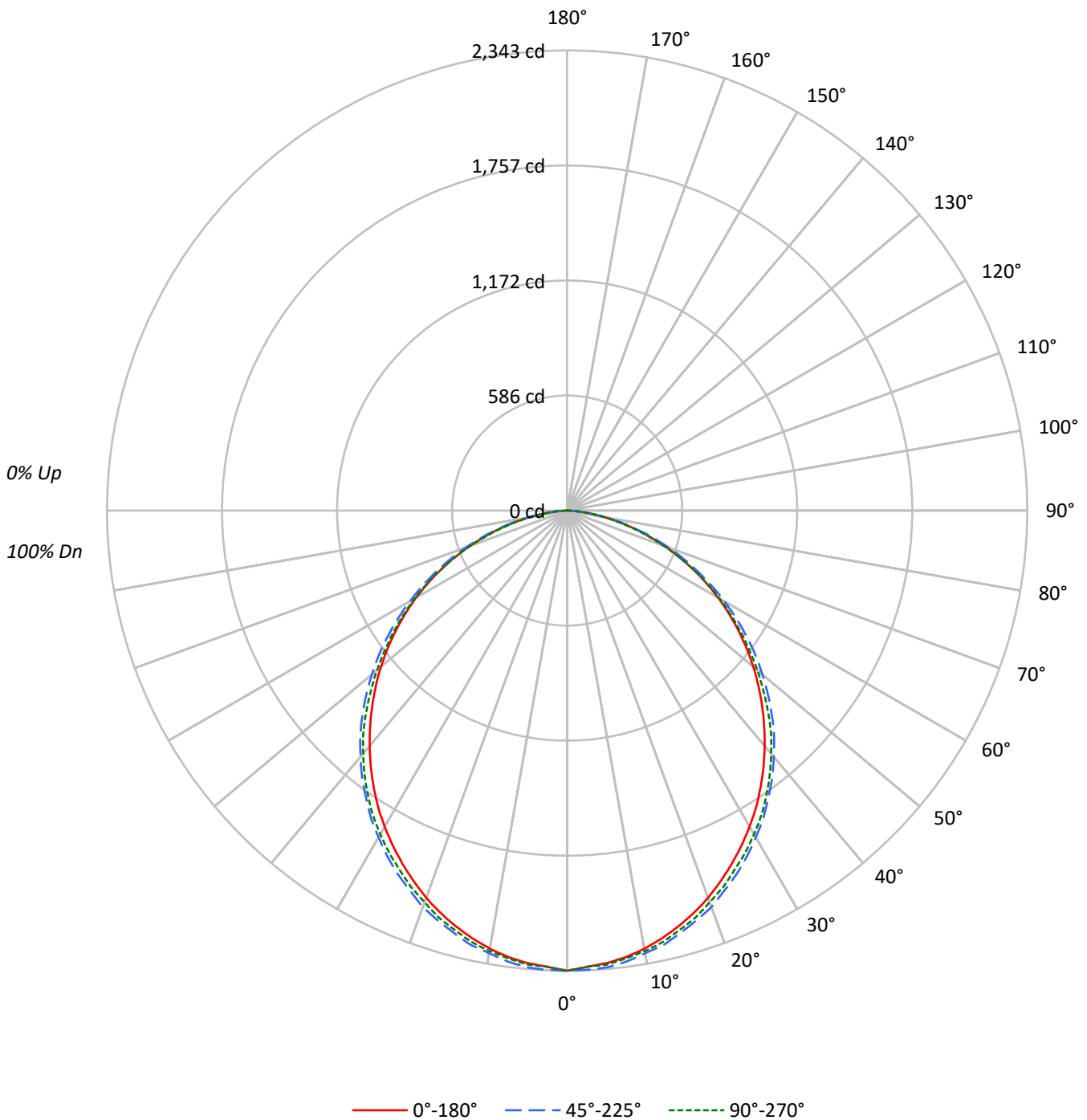
Lumens per Lamp: N/A  
Luminaire Lumens: 6160.6 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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°	6306	6306	6306
5°	6247	6306	6267
10°	6190	6253	6223
15°	6104	6203	6159
20°	6009	6151	6077
25°	5891	6062	5993
30°	5772	5968	5913
35°	5642	5866	5812
40°	5496	5749	5676
45°	5342	5611	5505
50°	5181	5431	5289
55°	4993	5226	5066
60°	4780	4979	4825
65°	4505	4677	4508
70°	4146	4312	4099
75°	3650	3815	3594
80°	2966	3095	2932
85°	2066	2201	2149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	3.6
10°-20°	625.4	10.2
20°-30°	932.7	15.1
30°-40°	1105.3	17.9
40°-50°	1118.4	18.2
50°-60°	976.8	15.9
60°-70°	713.8	11.6
70°-80°	379.8	6.2
80°-90°	87.8	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°	1778.8	28.9
0°-40°	2884.1	46.8
0°-60°	4979.3	80.8
0°-90°	6160.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6160.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2313	2317	2334	2340	2320	219
15°	2191	2206	2227	2240	2211	618
25°	1984	2009	2042	2049	2018	914
35°	1718	1744	1786	1798	1769	1074
45°	1404	1428	1474	1476	1446	1083
55°	1064	1086	1114	1098	1080	951
65°	708	722	735	720	708	700
75°	351	359	367	354	346	373
85°	67	68	71	72	70	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2343.3	2343.3	2343.3	2343.3	2343.3
2.5°	2325.0	2332.5	2340.3	2343.8	2324.7
5°	2312.8	2317.1	2334.5	2339.9	2320.1
7.5°	2292.7	2299.3	2316.2	2318.6	2299.6
10°	2265.4	2277.1	2288.3	2300.5	2277.4
12.5°	2230.5	2246.3	2265.4	2267.6	2250.0
15°	2191.2	2205.8	2226.6	2240.0	2210.9
17.5°	2147.2	2161.4	2188.2	2190.7	2173.1
20°	2098.2	2115.7	2148.0	2153.6	2122.1
22.5°	2042.5	2066.2	2093.0	2098.4	2075.2
25°	1984.1	2008.6	2041.8	2049.3	2018.3
27.5°	1923.1	1946.5	1983.9	1989.3	1963.1
30°	1857.7	1879.6	1920.7	1929.7	1903.1
32.5°	1791.3	1813.2	1858.7	1866.2	1840.3
35°	1717.5	1744.4	1785.7	1798.1	1769.1
37.5°	1642.3	1668.5	1715.3	1726.6	1695.3
40°	1564.5	1590.3	1636.5	1645.8	1615.7
42.5°	1484.9	1510.7	1560.1	1561.5	1536.6
45°	1403.6	1428.5	1474.4	1475.6	1446.5
47.5°	1321.1	1346.2	1387.2	1382.6	1355.2
50°	1237.6	1261.5	1297.4	1288.1	1263.4
52.5°	1151.1	1174.3	1208.3	1193.1	1169.9
55°	1064.2	1085.7	1114.0	1097.9	1079.8
57.5°	976.6	998.3	1020.0	1003.7	988.0
60°	888.2	907.2	925.1	908.5	896.5
62.5°	798.3	814.7	830.1	814.2	803.0
65°	707.5	721.9	734.6	720.0	708.0
67.5°	617.2	629.4	641.1	626.0	613.5
70°	526.9	537.4	548.1	532.5	521.0
72.5°	437.7	447.0	456.5	441.4	431.4
75°	351.1	359.1	366.9	353.5	345.7
77.5°	268.3	275.1	280.5	272.0	264.4
80°	191.4	196.5	199.7	196.3	189.2
82.5°	123.0	126.7	128.4	128.2	123.5
85°	66.9	68.1	71.3	72.0	69.6
87.5°	25.9	27.6	28.3	30.5	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)