

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: P489019

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-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: P489019  
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-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

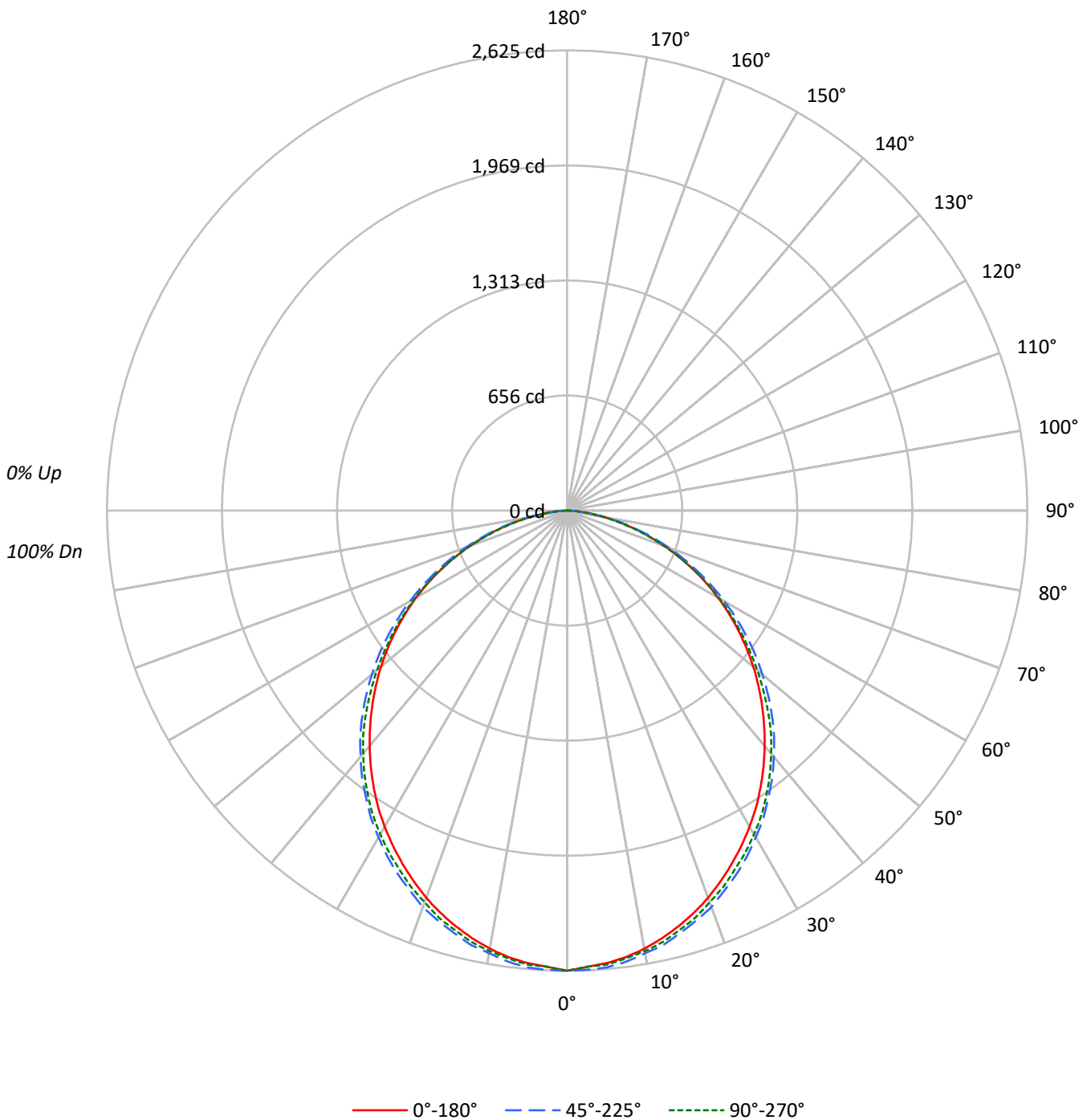
Lumens per Lamp: N/A  
Luminaire Lumens: 6902.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	7065	7065	7065
5°	6999	7065	7021
10°	6935	7005	6972
15°	6839	6949	6901
20°	6732	6891	6808
25°	6600	6792	6714
30°	6467	6686	6625
35°	6321	6572	6511
40°	6157	6440	6359
45°	5984	6286	6167
50°	5804	6085	5926
55°	5594	5856	5676
60°	5356	5578	5406
65°	5047	5240	5051
70°	4644	4832	4592
75°	4089	4274	4027
80°	3322	3467	3285
85°	2313	2467	2408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	3.6
10°-20°	700.7	10.2
20°-30°	1045.0	15.1
30°-40°	1238.3	17.9
40°-50°	1253.0	18.2
50°-60°	1094.3	15.9
60°-70°	799.7	11.6
70°-80°	425.5	6.2
80°-90°	98.3	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°	1992.9	28.9
0°-40°	3231.2	46.8
0°-60°	5578.5	80.8
0°-90°	6902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6902.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2591	2596	2615	2621	2599	246
15°	2455	2471	2494	2510	2477	692
25°	2223	2250	2288	2296	2261	1024
35°	1924	1954	2000	2014	1982	1203
45°	1572	1600	1652	1653	1621	1213
55°	1192	1216	1248	1230	1210	1066
65°	793	809	823	807	793	784
75°	393	402	411	396	387	418
85°	75	76	80	81	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2625.3	2625.3	2625.3	2625.3	2625.3
2.5°	2604.8	2613.2	2622.0	2625.8	2604.5
5°	2591.1	2596.0	2615.4	2621.4	2599.3
7.5°	2568.7	2576.0	2594.9	2597.6	2576.3
10°	2538.0	2551.2	2563.7	2577.4	2551.4
12.5°	2498.9	2516.7	2538.0	2540.5	2520.8
15°	2454.9	2471.3	2494.5	2509.6	2477.0
17.5°	2405.6	2421.5	2451.6	2454.3	2434.6
20°	2350.7	2370.4	2406.5	2412.7	2377.5
22.5°	2288.3	2314.8	2344.9	2350.9	2324.9
25°	2222.9	2250.3	2287.5	2296.0	2261.2
27.5°	2154.5	2180.8	2222.6	2228.7	2199.4
30°	2081.2	2105.9	2151.8	2161.9	2132.1
32.5°	2006.8	2031.5	2082.3	2090.8	2061.8
35°	1924.2	1954.3	2000.5	2014.5	1981.9
37.5°	1840.0	1869.3	1921.8	1934.4	1899.3
40°	1752.7	1781.7	1833.4	1843.8	1810.2
42.5°	1663.6	1692.6	1747.8	1749.5	1721.6
45°	1572.5	1600.4	1651.8	1653.2	1620.6
47.5°	1480.0	1508.2	1554.2	1549.0	1518.3
50°	1386.5	1413.3	1453.5	1443.1	1415.5
52.5°	1289.7	1315.6	1353.7	1336.7	1310.7
55°	1192.3	1216.4	1248.1	1230.0	1209.8
57.5°	1094.1	1118.4	1142.8	1124.5	1106.9
60°	995.1	1016.4	1036.4	1017.8	1004.4
62.5°	894.4	912.7	930.0	912.2	899.6
65°	792.7	808.8	823.0	806.6	793.2
67.5°	691.5	705.1	718.3	701.3	687.4
70°	590.3	602.0	614.1	596.6	583.7
72.5°	490.4	500.8	511.5	494.5	483.3
75°	393.3	402.4	411.1	396.1	387.3
77.5°	300.6	308.3	314.3	304.7	296.2
80°	214.4	220.2	223.7	219.9	212.0
82.5°	137.9	142.0	143.9	143.6	138.4
85°	74.9	76.3	79.9	80.7	78.0
87.5°	29.0	30.9	31.7	34.2	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)