

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: P488935

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-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: P488935
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-LD4-3HI-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

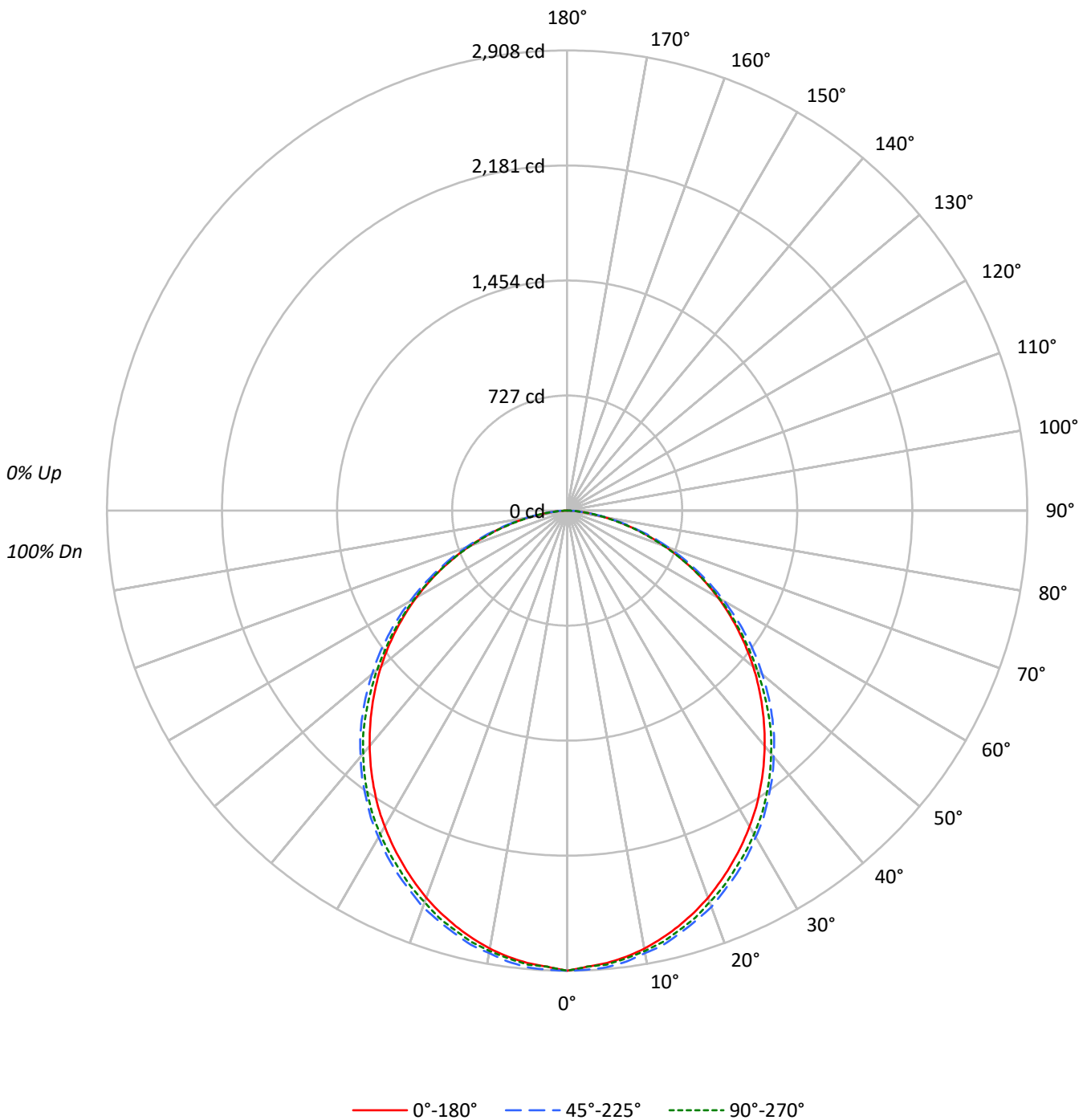
Lumens per Lamp: N/A
Luminaire Lumens: 7645.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	7825	7825	7825
5°	7753	7826	7777
10°	7682	7760	7723
15°	7575	7698	7644
20°	7456	7633	7542
25°	7311	7523	7437
30°	7164	7406	7338
35°	7002	7280	7212
40°	6820	7134	7044
45°	6629	6963	6832
50°	6430	6740	6564
55°	6196	6486	6287
60°	5932	6178	5987
65°	5591	5805	5594
70°	5144	5352	5087
75°	4530	4735	4460
80°	3680	3840	3639
85°	2563	2732	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	3.6
10°-20°	776.1	10.2
20°-30°	1157.5	15.1
30°-40°	1371.7	17.9
40°-50°	1387.9	18.2
50°-60°	1212.1	15.9
60°-70°	885.8	11.6
70°-80°	471.3	6.2
80°-90°	108.9	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°	2207.5	28.9
0°-40°	3579.2	46.8
0°-60°	6179.3	80.8
0°-90°	7645.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7645.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2870	2876	2897	2904	2879	272
15°	2719	2737	2763	2780	2744	767
25°	2462	2493	2534	2543	2505	1134
35°	2132	2165	2216	2231	2195	1333
45°	1742	1773	1830	1831	1795	1344
55°	1321	1347	1382	1362	1340	1181
65°	878	896	912	894	879	869
75°	436	446	455	439	429	463
85°	83	84	88	89	86	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2908.0	2908.0	2908.0	2908.0	2908.0
2.5°	2885.3	2894.7	2904.4	2908.6	2885.0
5°	2870.1	2875.6	2897.1	2903.8	2879.2
7.5°	2845.3	2853.5	2874.4	2877.4	2853.8
10°	2811.3	2825.9	2839.8	2855.0	2826.2
12.5°	2768.0	2787.7	2811.3	2814.1	2792.3
15°	2719.2	2737.4	2763.2	2779.8	2743.8
17.5°	2664.7	2682.3	2715.6	2718.6	2696.8
20°	2603.8	2625.6	2665.6	2672.6	2633.5
22.5°	2534.7	2564.1	2597.4	2604.1	2575.3
25°	2462.3	2492.6	2533.8	2543.2	2504.7
27.5°	2386.6	2415.7	2462.0	2468.7	2436.3
30°	2305.4	2332.6	2383.5	2394.8	2361.7
32.5°	2223.0	2250.2	2306.6	2316.0	2283.9
35°	2131.5	2164.8	2216.0	2231.4	2195.4
37.5°	2038.1	2070.6	2128.7	2142.7	2103.9
40°	1941.5	1973.6	2030.9	2042.4	2005.1
42.5°	1842.7	1874.8	1936.0	1937.9	1907.0
45°	1741.8	1772.7	1829.7	1831.2	1795.2
47.5°	1639.4	1670.6	1721.5	1715.8	1681.8
50°	1535.8	1565.5	1610.0	1598.5	1567.9
52.5°	1428.5	1457.3	1499.4	1480.7	1451.9
55°	1320.7	1347.4	1382.5	1362.5	1340.1
57.5°	1211.9	1238.9	1265.8	1245.5	1226.2
60°	1102.2	1125.9	1148.0	1127.4	1112.5
62.5°	990.7	1011.0	1030.1	1010.4	996.5
65°	878.0	895.9	911.7	893.5	878.6
67.5°	765.9	781.1	795.6	776.8	761.4
70°	653.8	666.9	680.2	660.8	646.6
72.5°	543.2	554.8	566.6	547.8	535.4
75°	435.7	445.7	455.4	438.7	429.0
77.5°	333.0	341.5	348.1	337.5	328.1
80°	237.5	243.9	247.8	243.6	234.8
82.5°	152.7	157.2	159.4	159.1	153.3
85°	83.0	84.5	88.5	89.4	86.3
87.5°	32.1	34.2	35.1	37.9	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)