

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: P489463

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-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: P489463
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-24-4-INS-A12125-LD4-2STD-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

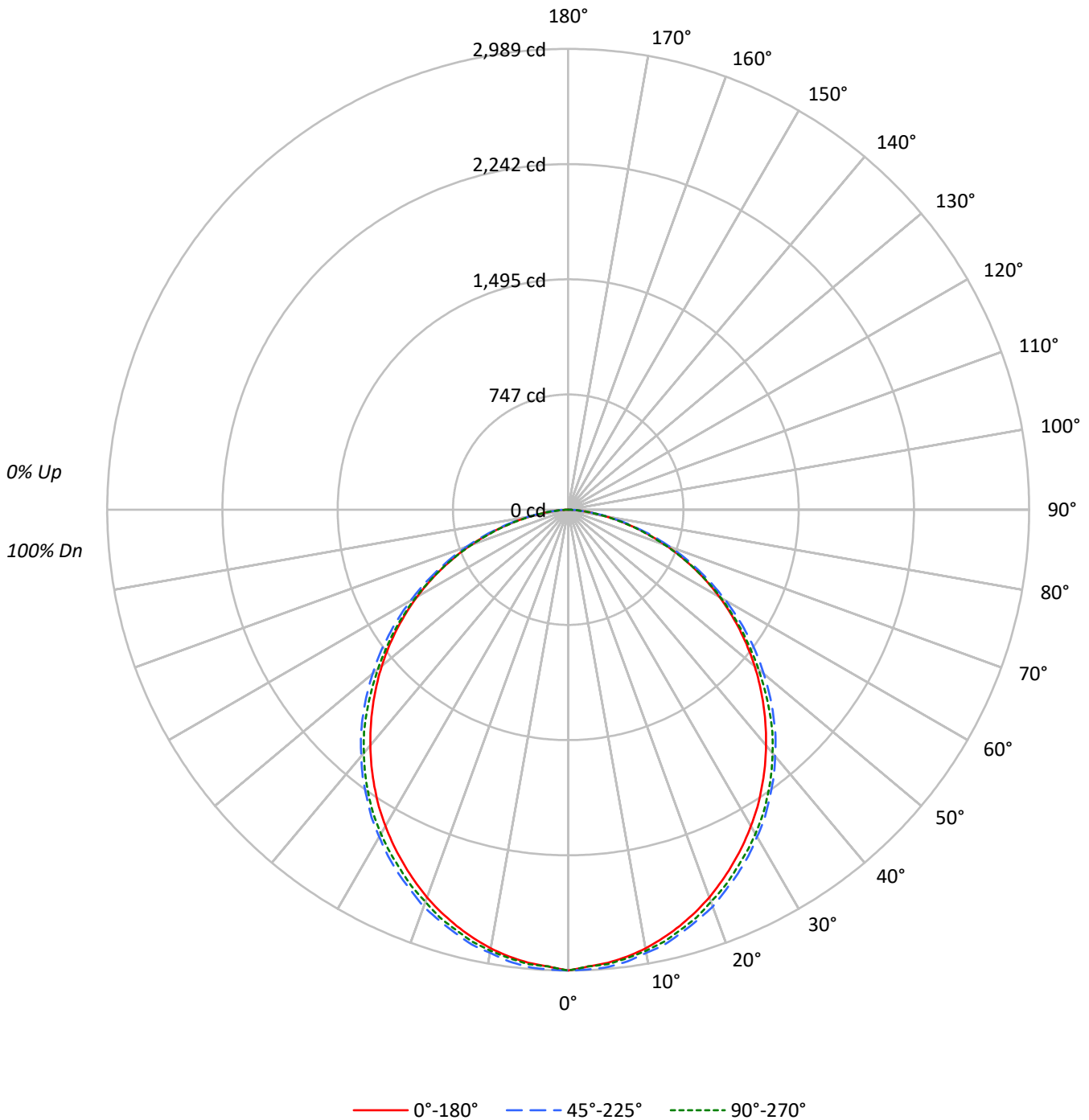
Lumens per Lamp: N/A
Luminaire Lumens: 7858.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4022	4022	4022
5°	3984	4022	3997
10°	3948	3988	3969
15°	3893	3956	3928
20°	3832	3923	3876
25°	3757	3866	3822
30°	3681	3806	3771
35°	3598	3741	3706
40°	3505	3666	3620
45°	3407	3578	3511
50°	3304	3464	3373
55°	3184	3333	3231
60°	3049	3175	3077
65°	2873	2983	2875
70°	2644	2750	2614
75°	2328	2433	2293
80°	1891	1974	1870
85°	1317	1403	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	3.6
10°-20°	797.7	10.2
20°-30°	1189.7	15.1
30°-40°	1409.8	17.9
40°-50°	1426.5	18.2
50°-60°	1245.9	15.9
60°-70°	910.4	11.6
70°-80°	484.4	6.2
80°-90°	112.0	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°	2268.9	28.9
0°-40°	3678.8	46.8
0°-60°	6351.2	80.8
0°-90°	7858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2989	2989	2989	2989	2989	
5°	2950	2956	2978	2984	2959	280
15°	2795	2814	2840	2857	2820	788
25°	2531	2562	2604	2614	2574	1166
35°	2191	2225	2278	2294	2256	1370
45°	1790	1822	1881	1882	1845	1381
55°	1357	1385	1421	1400	1377	1213
65°	902	921	937	918	903	893
75°	448	458	468	451	441	476
85°	85	87	91	92	89	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	2965.5	2975.2	2985.2	2989.5	2965.2
5°	2950.0	2955.6	2977.7	2984.5	2959.3
7.5°	2924.4	2932.8	2954.3	2957.5	2933.2
10°	2889.6	2904.5	2918.8	2934.4	2904.8
12.5°	2845.0	2865.3	2889.6	2892.4	2869.9
15°	2794.9	2813.6	2840.1	2857.2	2820.1
17.5°	2738.8	2756.9	2791.2	2794.3	2771.9
20°	2676.2	2698.7	2739.8	2746.9	2706.8
22.5°	2605.2	2635.5	2669.7	2676.6	2647.0
25°	2530.8	2562.0	2604.3	2614.0	2574.4
27.5°	2453.0	2482.9	2530.5	2537.4	2504.0
30°	2369.5	2397.5	2449.9	2461.4	2427.4
32.5°	2284.8	2312.8	2370.8	2380.4	2347.4
35°	2190.8	2225.0	2277.6	2293.5	2256.5
37.5°	2094.8	2128.2	2188.0	2202.3	2162.4
40°	1995.5	2028.5	2087.4	2099.2	2060.9
42.5°	1894.0	1927.0	1989.9	1991.8	1960.0
45°	1790.3	1822.1	1880.6	1882.2	1845.1
47.5°	1685.0	1717.1	1769.4	1763.5	1728.6
50°	1578.5	1609.1	1654.8	1643.0	1611.5
52.5°	1468.3	1497.9	1541.2	1521.9	1492.3
55°	1357.4	1384.8	1421.0	1400.4	1377.4
57.5°	1245.6	1273.4	1301.1	1280.2	1260.3
60°	1132.9	1157.2	1179.9	1158.8	1143.5
62.5°	1018.3	1039.2	1058.8	1038.5	1024.2
65°	902.5	920.8	937.0	918.3	903.1
67.5°	787.2	802.8	817.8	798.5	782.6
70°	672.0	685.4	699.1	679.2	664.5
72.5°	558.4	570.2	582.3	563.0	550.3
75°	447.8	458.1	468.0	450.9	441.0
77.5°	342.2	351.0	357.8	346.9	337.3
80°	244.1	250.7	254.7	250.4	241.3
82.5°	157.0	161.6	163.8	163.5	157.6
85°	85.3	86.9	90.9	91.9	88.8
87.5°	33.0	35.2	36.1	38.9	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)