

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: P488993

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488993
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-LD4-4STD-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

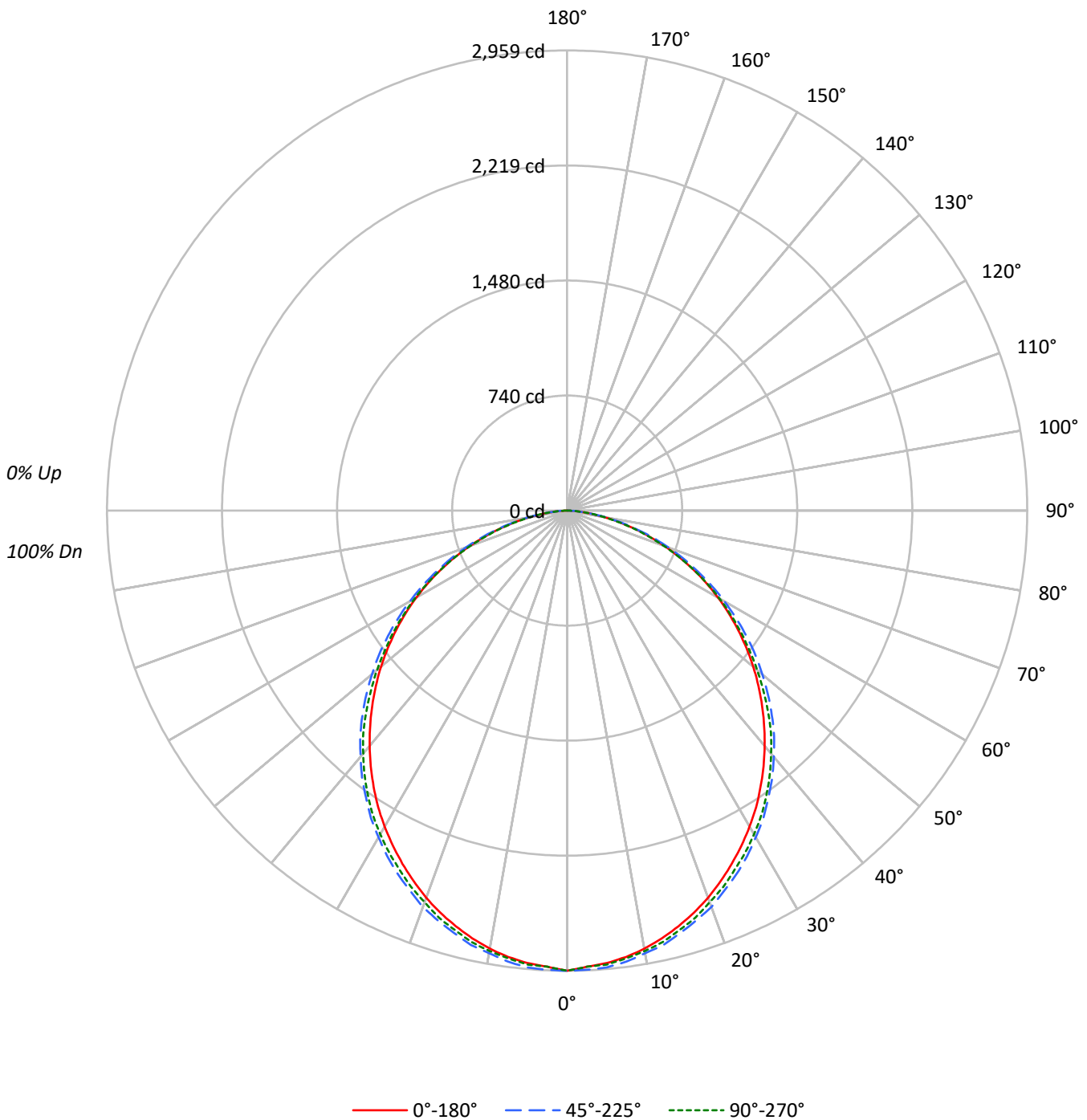
Lumens per Lamp: N/A
Luminaire Lumens: 7779.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7963	7963	7963
5°	7890	7964	7914
10°	7817	7896	7859
15°	7709	7833	7779
20°	7588	7768	7674
25°	7440	7656	7568
30°	7290	7537	7468
35°	7125	7408	7339
40°	6940	7260	7168
45°	6745	7086	6952
50°	6543	6859	6679
55°	6305	6600	6398
60°	6036	6287	6093
65°	5689	5907	5693
70°	5235	5446	5176
75°	4610	4818	4539
80°	3746	3908	3702
85°	2609	2779	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	3.6
10°-20°	789.8	10.2
20°-30°	1177.9	15.1
30°-40°	1395.8	17.9
40°-50°	1412.4	18.2
50°-60°	1233.5	15.9
60°-70°	901.4	11.6
70°-80°	479.6	6.2
80°-90°	110.9	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°	2246.4	28.9
0°-40°	3642.2	46.8
0°-60°	6288.0	80.8
0°-90°	7779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7779.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2959	2959	2959	2959	2959	
5°	2921	2926	2948	2955	2930	277
15°	2767	2786	2812	2829	2792	780
25°	2506	2536	2578	2588	2549	1154
35°	2169	2203	2255	2271	2234	1356
45°	1772	1804	1862	1863	1827	1367
55°	1344	1371	1407	1386	1364	1201
65°	894	912	928	909	894	884
75°	443	454	463	446	437	471
85°	84	86	90	91	88	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2959.2	2959.2	2959.2	2959.2	2959.2
2.5°	2936.1	2945.6	2955.5	2959.8	2935.8
5°	2920.7	2926.2	2948.1	2954.9	2929.9
7.5°	2895.4	2903.7	2925.0	2928.1	2904.0
10°	2860.8	2875.6	2889.8	2905.2	2876.0
12.5°	2816.8	2836.8	2860.8	2863.6	2841.4
15°	2767.1	2785.6	2811.8	2828.8	2792.1
17.5°	2711.6	2729.5	2763.4	2766.5	2744.3
20°	2649.6	2671.8	2712.5	2719.6	2679.9
22.5°	2579.4	2609.3	2643.2	2650.0	2620.7
25°	2505.7	2536.5	2578.4	2588.0	2548.8
27.5°	2428.6	2458.2	2505.4	2512.1	2479.2
30°	2346.0	2373.7	2425.5	2436.9	2403.3
32.5°	2262.1	2289.8	2347.2	2356.8	2324.1
35°	2169.0	2202.9	2255.0	2270.7	2234.0
37.5°	2074.0	2107.0	2166.2	2180.4	2140.9
40°	1975.7	2008.4	2066.6	2078.3	2040.4
42.5°	1875.2	1907.8	1970.1	1972.0	1940.5
45°	1772.5	1803.9	1861.9	1863.4	1826.8
47.5°	1668.3	1700.0	1751.8	1746.0	1711.5
50°	1562.8	1593.1	1638.4	1626.7	1595.5
52.5°	1453.7	1483.0	1525.8	1506.7	1477.4
55°	1343.9	1371.1	1406.8	1386.5	1363.7
57.5°	1233.3	1260.7	1288.1	1267.5	1247.7
60°	1121.6	1145.7	1168.2	1147.2	1132.1
62.5°	1008.2	1028.8	1048.3	1028.2	1014.0
65°	893.5	911.7	927.7	909.2	894.1
67.5°	779.4	794.8	809.6	790.5	774.8
70°	665.3	678.6	692.2	672.4	657.9
72.5°	552.8	564.5	576.5	557.4	544.8
75°	443.4	453.5	463.4	446.4	436.6
77.5°	338.8	347.5	354.3	343.5	333.9
80°	241.7	248.2	252.2	247.9	238.9
82.5°	155.4	160.0	162.2	161.9	156.0
85°	84.5	86.0	90.0	91.0	87.9
87.5°	32.7	34.8	35.8	38.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)