

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: P489461

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-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: P489461
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-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

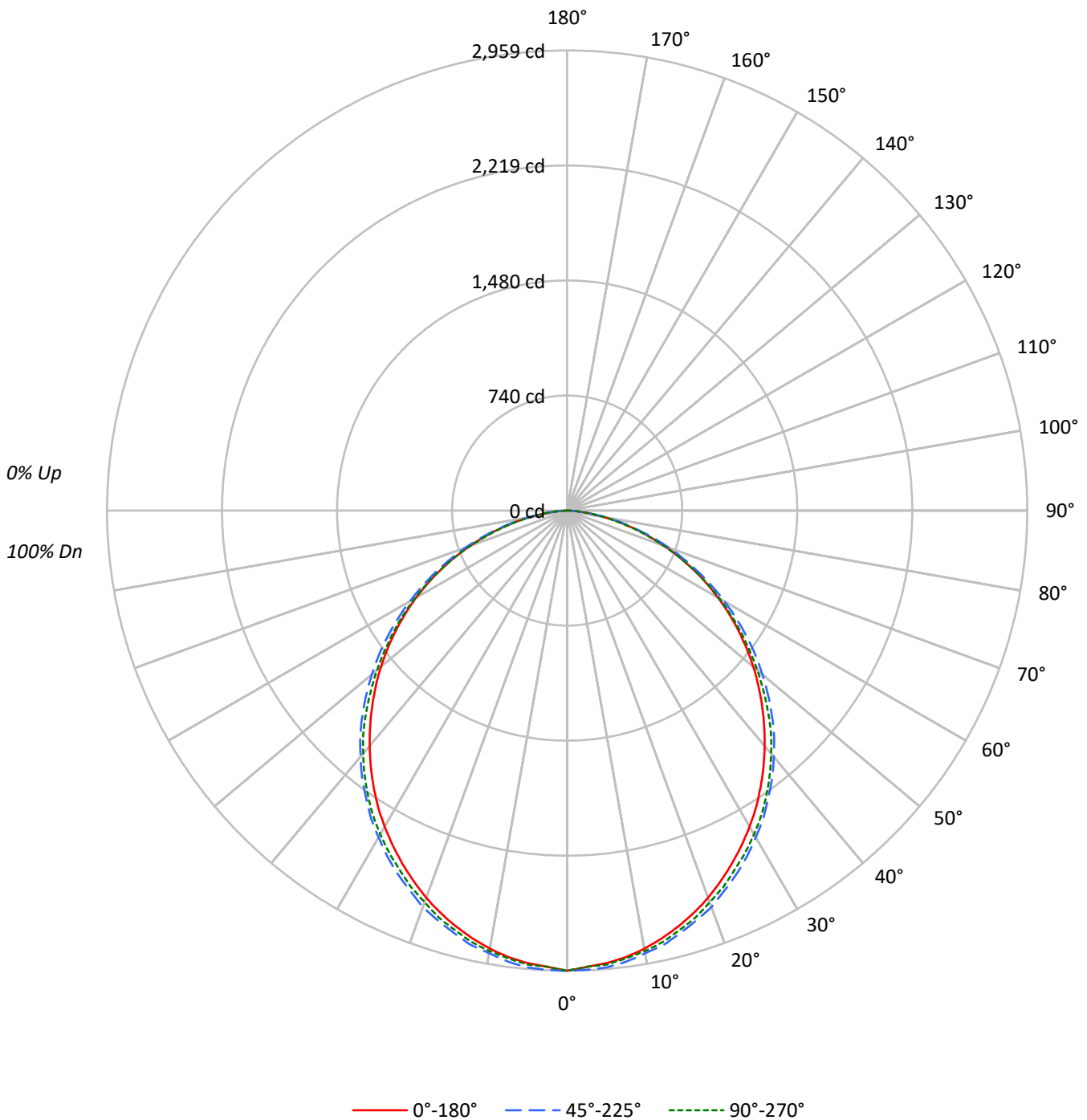
Lumens per Lamp: N/A
Luminaire Lumens: 7780.2 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3982	3982	3982
5°	3945	3982	3957
10°	3909	3948	3929
15°	3855	3917	3889
20°	3794	3884	3837
25°	3720	3828	3784
30°	3645	3769	3734
35°	3563	3704	3670
40°	3470	3630	3584
45°	3373	3543	3476
50°	3271	3430	3340
55°	3153	3300	3199
60°	3018	3144	3047
65°	2845	2954	2847
70°	2618	2723	2589
75°	2305	2409	2270
80°	1873	1954	1852
85°	1304	1389	1357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	3.6
10°-20°	789.8	10.2
20°-30°	1178.0	15.1
30°-40°	1395.9	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°	2246.5	28.9
0°-40°	3642.3	46.8
0°-60°	6288.3	80.8
0°-90°	7780.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7780.2	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	2537	2578	2588	2549	1154
35°	2169	2203	2255	2271	2234	1356
45°	1773	1804	1862	1864	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°	2959.3	2959.3	2959.3	2959.3	2959.3
2.5°	2936.2	2945.7	2955.6	2959.9	2935.9
5°	2920.8	2926.3	2948.2	2955.0	2930.0
7.5°	2895.5	2903.8	2925.1	2928.2	2904.1
10°	2861.0	2875.8	2889.9	2905.4	2876.1
12.5°	2816.9	2836.9	2861.0	2863.7	2841.5
15°	2767.2	2785.7	2811.9	2828.9	2792.2
17.5°	2711.7	2729.6	2763.5	2766.6	2744.4
20°	2649.8	2672.0	2712.7	2719.7	2680.0
22.5°	2579.5	2609.4	2643.3	2650.1	2620.8
25°	2505.8	2536.6	2578.5	2588.1	2548.9
27.5°	2428.7	2458.3	2505.5	2512.2	2479.2
30°	2346.1	2373.8	2425.6	2437.0	2403.4
32.5°	2262.2	2289.9	2347.3	2356.8	2324.2
35°	2169.1	2203.0	2255.1	2270.8	2234.1
37.5°	2074.1	2107.1	2166.3	2180.5	2141.0
40°	1975.8	2008.4	2066.7	2078.4	2040.5
42.5°	1875.2	1907.9	1970.2	1972.1	1940.6
45°	1772.6	1804.0	1862.0	1863.5	1826.8
47.5°	1668.4	1700.1	1751.9	1746.0	1711.5
50°	1562.9	1593.1	1638.4	1626.7	1595.6
52.5°	1453.8	1483.0	1525.9	1506.8	1477.5
55°	1344.0	1371.1	1406.9	1386.5	1363.7
57.5°	1233.3	1260.7	1288.2	1267.5	1247.8
60°	1121.7	1145.7	1168.2	1147.3	1132.2
62.5°	1008.2	1028.9	1048.3	1028.3	1014.1
65°	893.5	911.7	927.8	909.3	894.1
67.5°	779.4	794.9	809.7	790.5	774.8
70°	665.4	678.6	692.2	672.5	658.0
72.5°	552.8	564.5	576.6	557.5	544.8
75°	443.4	453.5	463.4	446.5	436.6
77.5°	338.9	347.5	354.3	343.5	333.9
80°	241.7	248.2	252.2	247.9	239.0
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)