

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: P489465

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-50-120-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: P489465
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-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

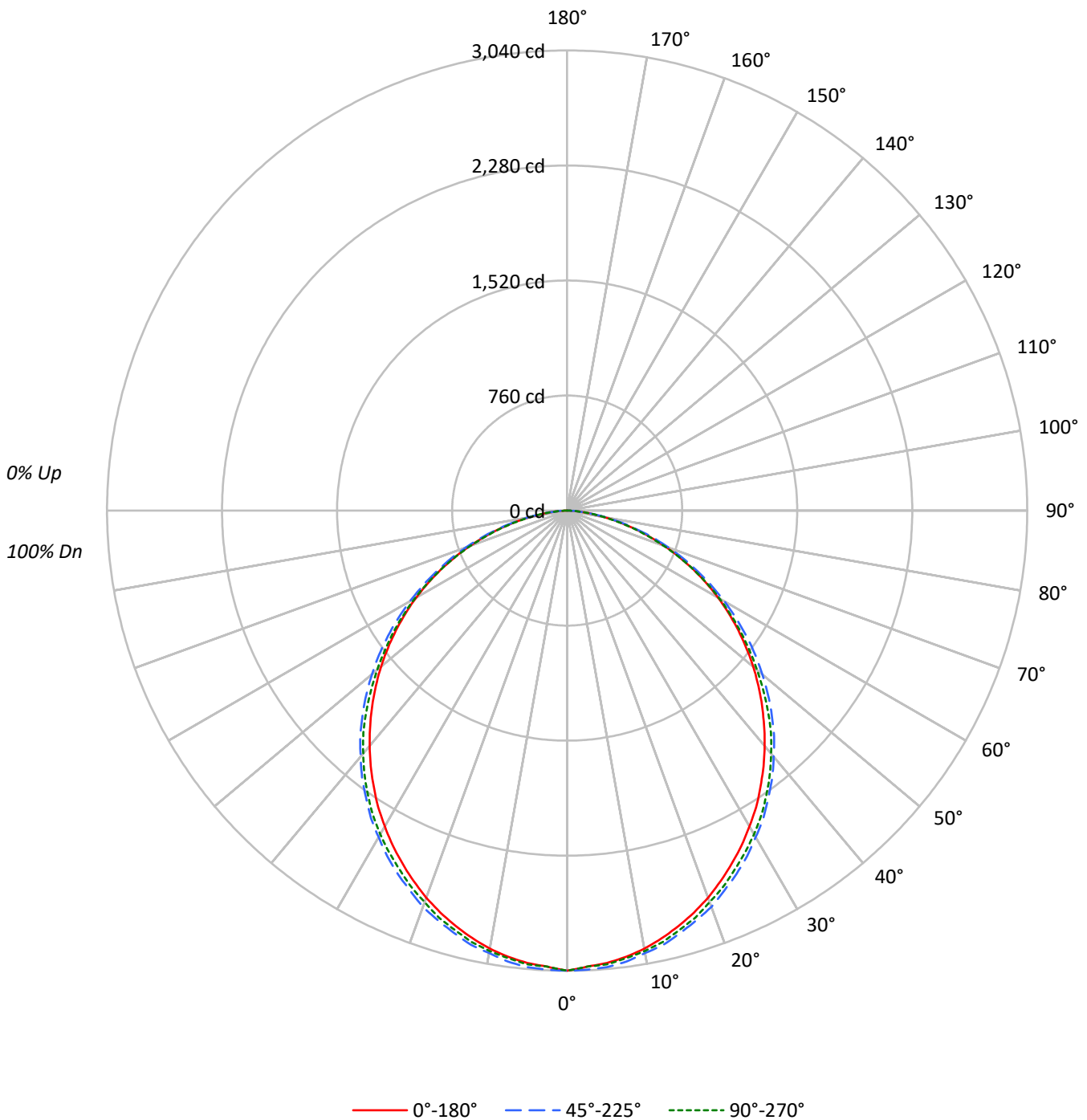
Lumens per Lamp: N/A
Luminaire Lumens: 7991.3 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4090	4090	4090
5°	4052	4090	4065
10°	4015	4056	4036
15°	3959	4023	3995
20°	3897	3990	3941
25°	3821	3932	3887
30°	3744	3871	3835
35°	3659	3805	3769
40°	3564	3729	3681
45°	3464	3639	3570
50°	3360	3523	3431
55°	3238	3390	3286
60°	3100	3229	3129
65°	2922	3034	2924
70°	2688	2797	2659
75°	2367	2475	2331
80°	1924	2008	1901
85°	1340	1428	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	3.6
10°-20°	811.2	10.2
20°-30°	1209.9	15.1
30°-40°	1433.8	17.9
40°-50°	1450.7	18.2
50°-60°	1267.0	15.9
60°-70°	925.9	11.6
70°-80°	492.6	6.2
80°-90°	113.9	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°	2307.4	28.9
0°-40°	3741.2	46.8
0°-60°	6458.9	80.8
0°-90°	7991.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7991.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3040	3040	3040	3040	3040	
5°	3000	3006	3028	3035	3010	284
15°	2842	2861	2888	2906	2868	801
25°	2574	2605	2648	2658	2618	1186
35°	2228	2263	2316	2332	2295	1393
45°	1821	1853	1912	1914	1876	1405
55°	1380	1408	1445	1424	1401	1234
65°	918	936	953	934	918	908
75°	455	466	476	459	448	484
85°	87	88	92	93	90	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3039.6	3039.6	3039.6	3039.6	3039.6
2.5°	3015.9	3025.7	3035.8	3040.2	3015.5
5°	3000.0	3005.7	3028.2	3035.2	3009.5
7.5°	2974.1	2982.6	3004.5	3007.6	2982.9
10°	2938.6	2953.8	2968.4	2984.2	2954.1
12.5°	2893.3	2913.9	2938.6	2941.4	2918.6
15°	2842.3	2861.3	2888.2	2905.6	2868.0
17.5°	2785.3	2803.7	2838.5	2841.7	2818.9
20°	2721.6	2744.4	2786.3	2793.5	2752.7
22.5°	2649.4	2680.2	2715.0	2722.0	2691.9
25°	2573.8	2605.4	2648.5	2658.3	2618.1
27.5°	2494.6	2525.0	2573.4	2580.4	2546.5
30°	2409.7	2438.2	2491.4	2503.1	2468.6
32.5°	2323.6	2352.1	2411.0	2420.8	2387.2
35°	2227.9	2262.8	2316.3	2332.4	2294.7
37.5°	2130.4	2164.3	2225.1	2239.6	2199.1
40°	2029.4	2062.9	2122.8	2134.8	2095.9
42.5°	1926.1	1959.7	2023.7	2025.6	1993.3
45°	1820.7	1853.0	1912.5	1914.1	1876.4
47.5°	1713.6	1746.2	1799.4	1793.4	1758.0
50°	1605.3	1636.3	1682.9	1670.9	1638.9
52.5°	1493.2	1523.3	1567.3	1547.7	1517.6
55°	1380.5	1408.3	1445.1	1424.2	1400.7
57.5°	1266.8	1295.0	1323.1	1301.9	1281.7
60°	1152.1	1176.8	1199.9	1178.4	1162.9
62.5°	1035.6	1056.8	1076.8	1056.2	1041.6
65°	917.8	936.5	952.9	933.9	918.4
67.5°	800.6	816.4	831.6	812.0	795.8
70°	683.4	697.0	711.0	690.7	675.8
72.5°	567.8	579.9	592.2	572.6	559.6
75°	455.4	465.9	476.0	458.6	448.4
77.5°	348.0	356.9	363.9	352.8	343.0
80°	248.3	254.9	259.1	254.6	245.4
82.5°	159.6	164.4	166.6	166.3	160.2
85°	86.8	88.4	92.5	93.4	90.3
87.5°	33.6	35.8	36.7	39.6	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)