

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: P489028

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-35-120-EDD-90**

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: P489028
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-LD4-5STD-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

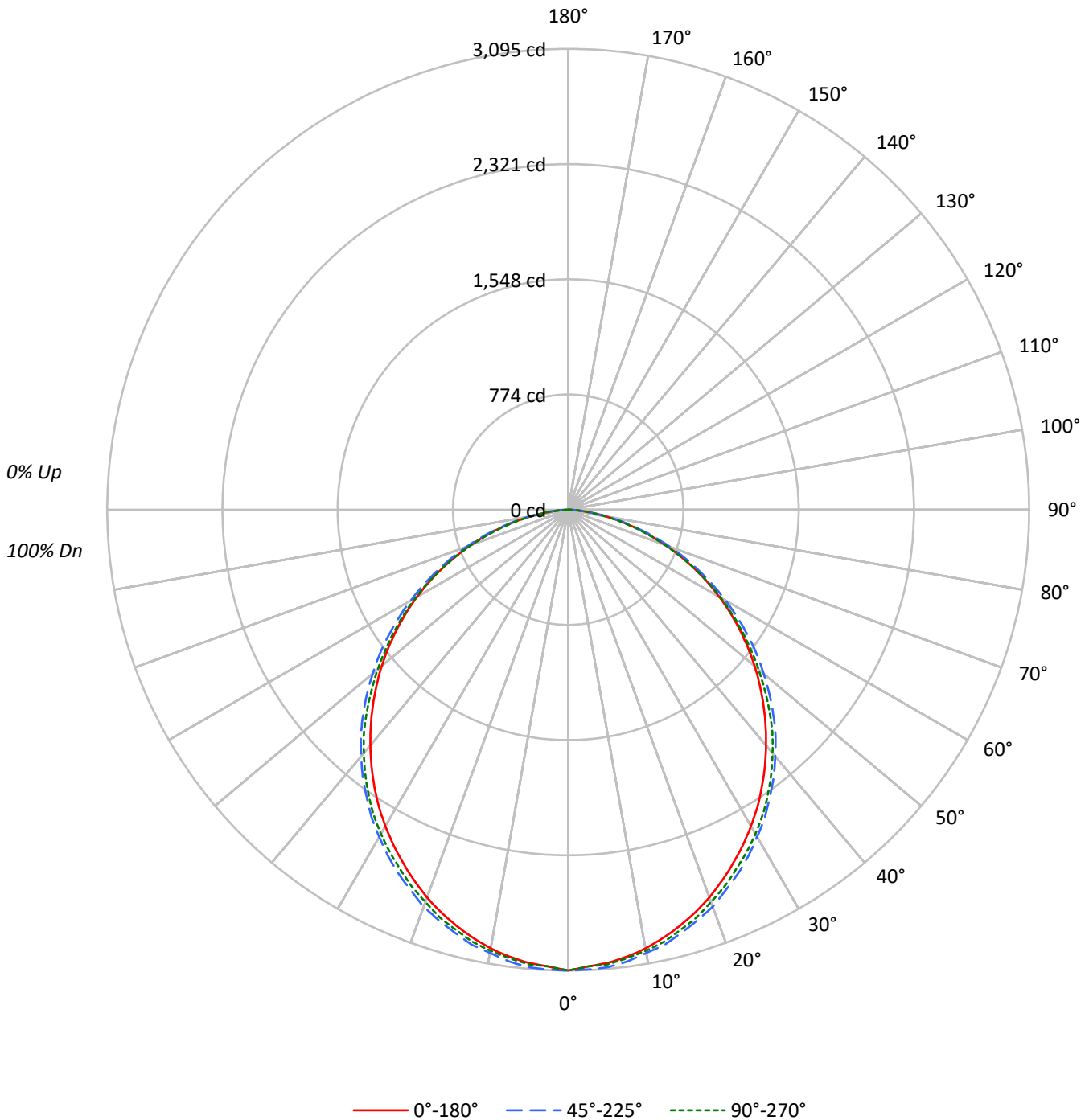
Lumens per Lamp: N/A
Luminaire Lumens: 8137.3 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	8329	8329	8329
5°	8252	8329	8278
10°	8176	8259	8220
15°	8063	8193	8136
20°	7936	8125	8027
25°	7782	8008	7916
30°	7624	7883	7811
35°	7453	7748	7676
40°	7259	7593	7497
45°	7055	7411	7271
50°	6843	7174	6986
55°	6595	6904	6692
60°	6314	6576	6373
65°	5950	6178	5955
70°	5475	5696	5415
75°	4821	5039	4747
80°	3918	4088	3873
85°	2729	2908	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	3.6
10°-20°	826.1	10.2
20°-30°	1232.0	15.1
30°-40°	1459.9	17.9
40°-50°	1477.2	18.2
50°-60°	1290.2	15.9
60°-70°	942.8	11.6
70°-80°	501.6	6.2
80°-90°	115.9	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°	2349.6	28.9
0°-40°	3809.5	46.8
0°-60°	6576.9	80.8
0°-90°	8137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8137.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3095	3095	3095	3095	3095	
5°	3055	3061	3084	3091	3064	290
15°	2894	2914	2941	2959	2920	816
25°	2621	2653	2697	2707	2666	1207
35°	2269	2304	2359	2375	2337	1419
45°	1854	1887	1947	1949	1911	1430
55°	1406	1434	1472	1450	1426	1257
65°	934	954	970	951	935	925
75°	464	474	485	467	457	493
85°	88	90	94	95	92	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3095.1	3095.1	3095.1	3095.1	3095.1
2.5°	3071.0	3081.0	3091.3	3095.8	3070.6
5°	3054.8	3060.6	3083.5	3090.6	3064.5
7.5°	3028.4	3037.1	3059.3	3062.6	3037.4
10°	2992.3	3007.7	3022.6	3038.7	3008.1
12.5°	2946.2	2967.1	2992.3	2995.2	2972.0
15°	2894.2	2913.6	2941.0	2958.7	2920.4
17.5°	2836.2	2854.9	2890.4	2893.6	2870.4
20°	2771.4	2794.6	2837.2	2844.6	2803.0
22.5°	2697.8	2729.1	2764.6	2771.7	2741.1
25°	2620.8	2653.0	2696.9	2706.9	2665.9
27.5°	2540.2	2571.1	2620.5	2627.5	2593.0
30°	2453.7	2482.8	2536.9	2548.9	2513.7
32.5°	2366.0	2395.0	2455.0	2465.0	2430.8
35°	2268.6	2304.1	2358.6	2375.0	2336.7
37.5°	2169.3	2203.8	2265.7	2280.6	2239.3
40°	2066.4	2100.6	2161.6	2173.8	2134.2
42.5°	1961.3	1995.5	2060.6	2062.6	2029.7
45°	1853.9	1886.8	1947.4	1949.1	1910.7
47.5°	1744.9	1778.1	1832.3	1826.2	1790.1
50°	1634.6	1666.2	1713.6	1701.4	1668.8
52.5°	1520.5	1551.1	1595.9	1575.9	1545.3
55°	1405.7	1434.1	1471.5	1450.2	1426.3
57.5°	1289.9	1318.6	1347.3	1325.7	1305.1
60°	1173.2	1198.3	1221.9	1199.9	1184.1
62.5°	1054.5	1076.1	1096.4	1075.5	1060.6
65°	934.5	953.6	970.3	951.0	935.2
67.5°	815.2	831.3	846.8	826.8	810.4
70°	695.9	709.8	724.0	703.3	688.2
72.5°	578.2	590.5	603.0	583.0	569.8
75°	463.7	474.4	484.7	466.9	456.6
77.5°	354.4	363.4	370.5	359.2	349.2
80°	252.8	259.6	263.8	259.3	249.9
82.5°	162.5	167.4	169.6	169.3	163.2
85°	88.4	90.0	94.2	95.1	91.9
87.5°	34.2	36.4	37.4	40.3	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)