

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: P489845

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-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: P489845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-3LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

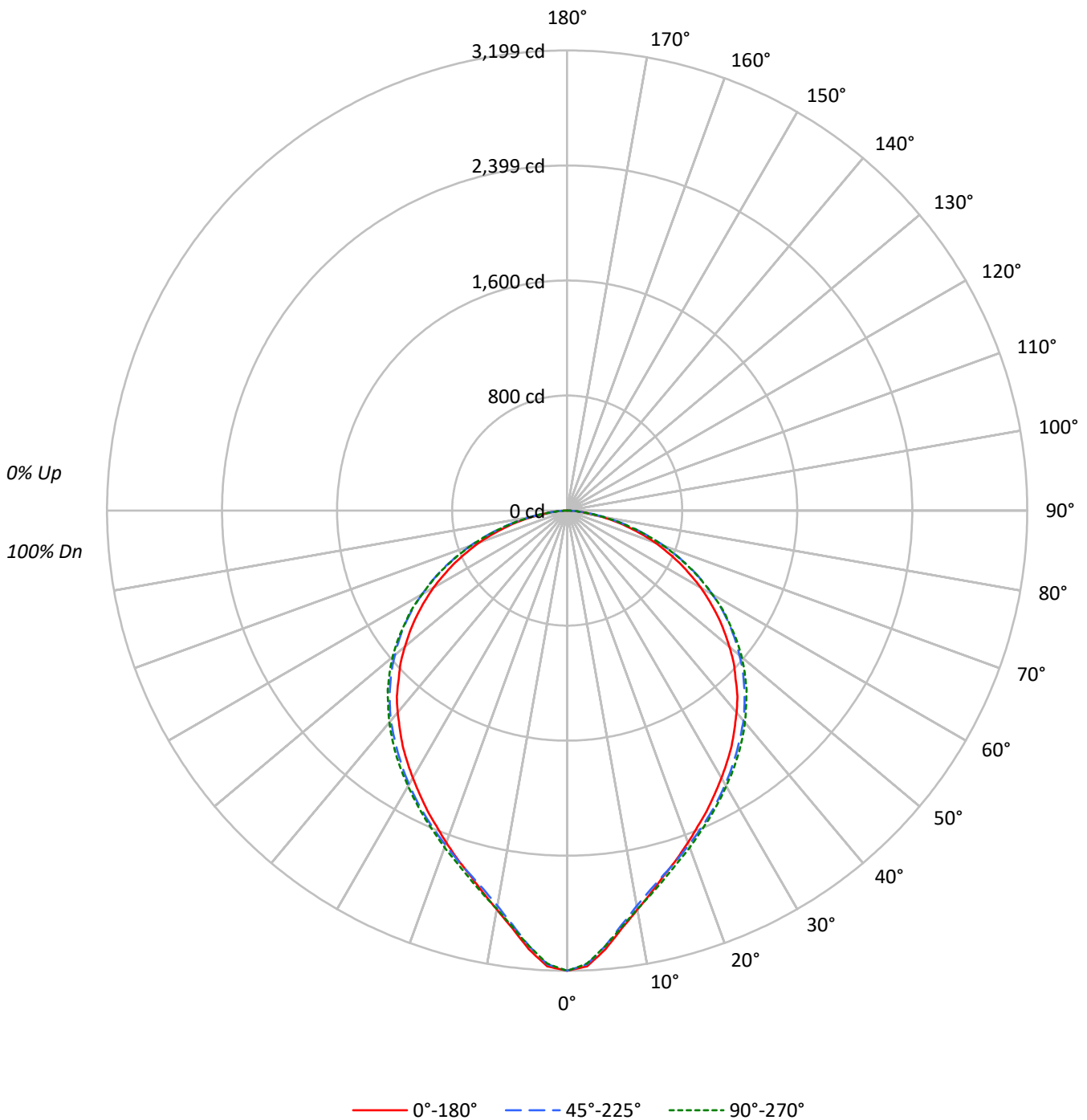
Lumens per Lamp: N/A
Luminaire Lumens: 7430.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4304	4304	4304
5°	4133	4103	4103
10°	3846	3811	3841
15°	3650	3643	3679
20°	3516	3541	3568
25°	3415	3471	3491
30°	3333	3415	3436
35°	3276	3372	3406
40°	3218	3348	3376
45°	3151	3316	3355
50°	3082	3274	3318
55°	2996	3227	3240
60°	2888	3138	3132
65°	2738	3018	2998
70°	2556	2814	2780
75°	2256	2493	2468
80°	1833	2032	1932
85°	1271	1295	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	3.8
10°-20°	740.4	10.0
20°-30°	1076.7	14.5
30°-40°	1281.2	17.2
40°-50°	1330.3	17.9
50°-60°	1205.2	16.2
60°-70°	909.4	12.2
70°-80°	495.5	6.7
80°-90°	108.9	1.5
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°	2099.7	28.3
0°-40°	3380.9	45.5
0°-60°	5916.4	79.6
0°-90°	7430.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7430.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3199	3199	3199	3199	3199	
5°	3060	3053	3038	3037	3038	284
15°	2620	2614	2615	2633	2641	740
25°	2300	2320	2338	2357	2352	1060
35°	1994	2018	2053	2084	2073	1247
45°	1656	1686	1742	1762	1763	1280
55°	1277	1308	1376	1385	1381	1140
65°	860	885	948	946	942	850
75°	434	452	480	483	475	462
85°	82	83	84	83	81	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3198.9	3198.9	3198.9	3198.9	3198.9
2.5°	3170.9	3167.7	3157.3	3153.3	3152.5
5°	3059.8	3052.6	3038.2	3036.6	3038.2
7.5°	2927.1	2919.1	2904.7	2910.3	2917.5
10°	2815.2	2795.2	2789.6	2797.6	2811.2
12.5°	2715.2	2699.3	2694.4	2715.2	2724.9
15°	2620.1	2613.7	2615.4	2633.0	2640.9
17.5°	2537.8	2533.8	2544.2	2557.8	2561.8
20°	2455.5	2463.5	2473.1	2487.5	2492.2
22.5°	2374.8	2389.9	2406.0	2425.1	2418.7
25°	2300.4	2319.6	2338.0	2357.2	2351.6
27.5°	2221.3	2243.6	2269.3	2290.0	2282.0
30°	2145.3	2173.3	2198.1	2223.7	2211.7
32.5°	2070.2	2096.6	2126.2	2157.4	2143.8
35°	1994.3	2018.3	2052.7	2083.8	2073.4
37.5°	1910.4	1939.9	1979.1	2006.2	1999.1
40°	1832.0	1859.2	1906.4	1924.0	1922.3
42.5°	1752.9	1775.3	1824.8	1844.8	1841.6
45°	1656.2	1685.8	1742.5	1761.7	1763.3
47.5°	1570.7	1595.5	1656.2	1671.3	1674.5
50°	1472.3	1503.5	1564.3	1582.6	1585.1
52.5°	1375.6	1409.2	1471.5	1484.3	1486.7
55°	1277.3	1307.6	1375.6	1385.2	1381.2
57.5°	1174.2	1211.0	1273.3	1278.1	1282.1
60°	1073.4	1105.4	1166.2	1172.6	1163.8
62.5°	964.0	996.7	1059.1	1060.7	1053.5
65°	860.0	884.8	948.0	946.4	941.6
67.5°	751.3	781.7	828.1	829.7	825.7
70°	649.8	670.6	715.4	716.2	706.6
72.5°	540.4	562.7	598.7	593.9	591.5
75°	434.0	451.6	479.6	482.8	474.8
77.5°	336.5	349.3	370.1	367.7	358.9
80°	236.6	247.0	262.2	259.0	249.4
82.5°	151.0	157.5	167.1	163.1	159.1
85°	82.3	83.1	83.9	83.1	80.7
87.5°	30.4	31.2	31.2	30.4	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)