

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: P489515

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-20-120-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: P489515
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-LD4-4LO-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

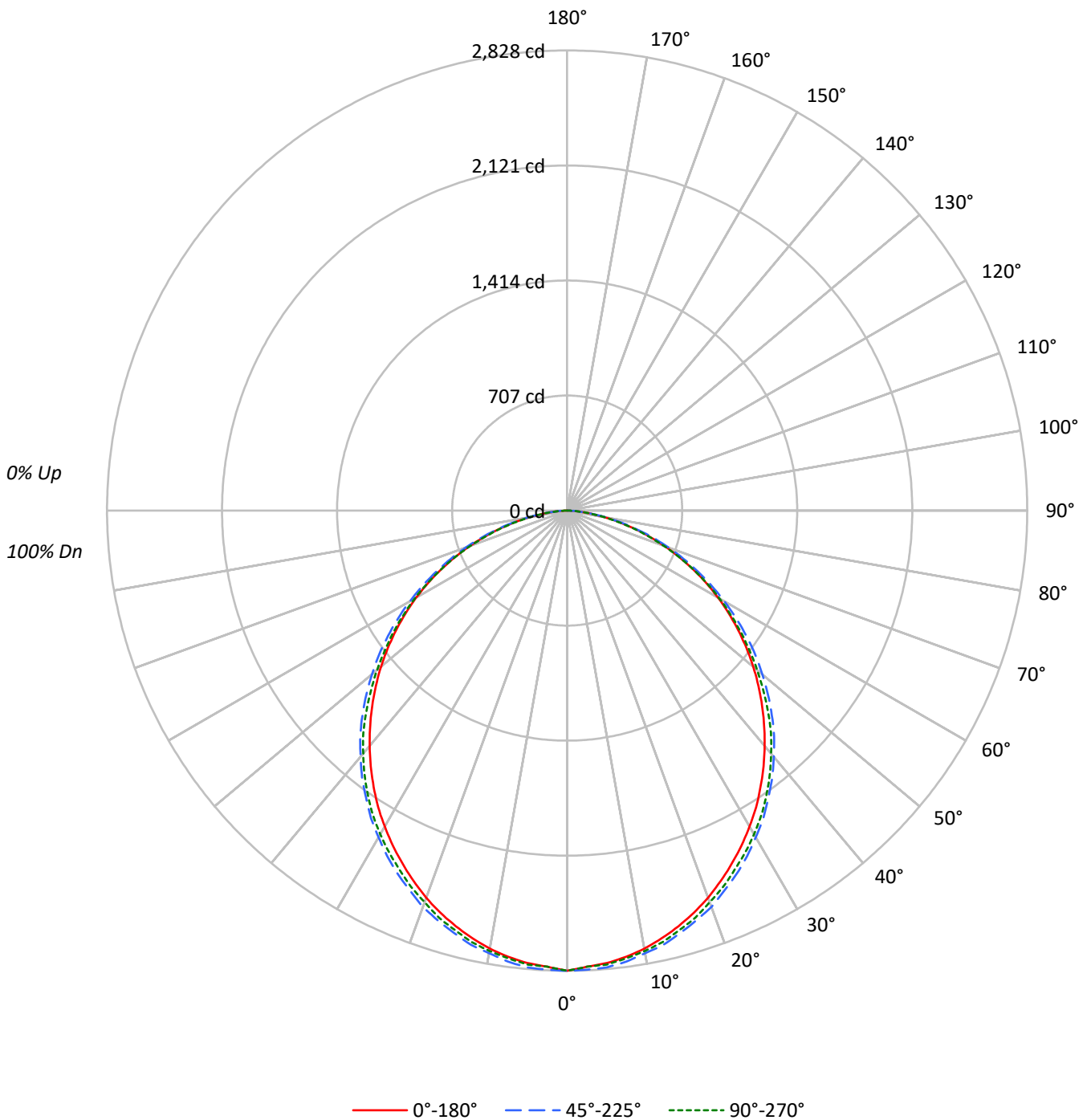
Lumens per Lamp: N/A
Luminaire Lumens: 7435.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	3805	3805	3805
5°	3770	3805	3782
10°	3735	3773	3755
15°	3684	3743	3717
20°	3626	3712	3667
25°	3555	3658	3616
30°	3483	3601	3569
35°	3405	3540	3507
40°	3316	3469	3425
45°	3223	3386	3322
50°	3126	3278	3192
55°	3013	3154	3057
60°	2885	3004	2912
65°	2719	2823	2720
70°	2502	2602	2474
75°	2203	2302	2169
80°	1790	1867	1770
85°	1246	1328	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	3.6
10°-20°	754.8	10.2
20°-30°	1125.7	15.1
30°-40°	1334.0	17.9
40°-50°	1349.8	18.2
50°-60°	1178.9	15.9
60°-70°	861.4	11.6
70°-80°	458.4	6.2
80°-90°	105.9	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°	2146.9	28.9
0°-40°	3480.9	46.8
0°-60°	6009.5	80.8
0°-90°	7435.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7435.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2791	2797	2818	2824	2800	265
15°	2645	2662	2687	2704	2668	746
25°	2395	2424	2464	2473	2436	1103
35°	2073	2105	2155	2170	2135	1296
45°	1694	1724	1779	1781	1746	1307
55°	1284	1310	1344	1325	1303	1148
65°	854	871	887	869	854	845
75°	424	433	443	427	417	450
85°	81	82	86	87	84	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2828.1	2828.1	2828.1	2828.1	2828.1
2.5°	2806.0	2815.2	2824.6	2828.7	2805.7
5°	2791.3	2796.6	2817.5	2824.0	2800.1
7.5°	2767.1	2775.1	2795.4	2798.4	2775.4
10°	2734.1	2748.3	2761.8	2776.6	2748.6
12.5°	2692.0	2711.1	2734.1	2736.8	2715.6
15°	2644.6	2662.2	2687.3	2703.5	2668.4
17.5°	2591.5	2608.6	2641.0	2644.0	2622.7
20°	2532.3	2553.5	2592.4	2599.2	2561.2
22.5°	2465.1	2493.7	2526.1	2532.6	2504.6
25°	2394.7	2424.1	2464.2	2473.4	2435.9
27.5°	2321.0	2349.3	2394.4	2400.9	2369.3
30°	2242.0	2268.6	2318.1	2329.0	2296.9
32.5°	2161.9	2188.4	2243.2	2252.4	2221.1
35°	2072.9	2105.3	2155.1	2170.2	2135.1
37.5°	1982.2	2013.7	2070.3	2083.8	2046.1
40°	1888.2	1919.4	1975.1	1986.3	1950.0
42.5°	1792.1	1823.3	1882.9	1884.6	1854.6
45°	1694.0	1724.0	1779.4	1780.9	1745.8
47.5°	1594.4	1624.7	1674.2	1668.6	1635.6
50°	1493.6	1522.5	1565.8	1554.6	1524.9
52.5°	1389.3	1417.3	1458.3	1440.0	1412.0
55°	1284.4	1310.3	1344.5	1325.1	1303.3
57.5°	1178.6	1204.9	1231.1	1211.3	1192.5
60°	1072.0	1094.9	1116.5	1096.4	1082.0
62.5°	963.5	983.3	1001.8	982.7	969.1
65°	853.9	871.3	886.6	868.9	854.5
67.5°	744.9	759.6	773.8	755.5	740.5
70°	635.9	648.5	661.5	642.6	628.8
72.5°	528.3	539.5	551.0	532.7	520.7
75°	423.7	433.4	442.9	426.7	417.2
77.5°	323.8	332.1	338.6	328.2	319.1
80°	231.0	237.2	241.0	236.9	228.4
82.5°	148.5	152.9	155.0	154.7	149.1
85°	80.7	82.2	86.0	86.9	84.0
87.5°	31.2	33.3	34.2	36.8	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)