

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: P488601

Luminaire Tested: **CLM-12-4-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: P488601
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-12-4-INS-A12125-LD4-2STD-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

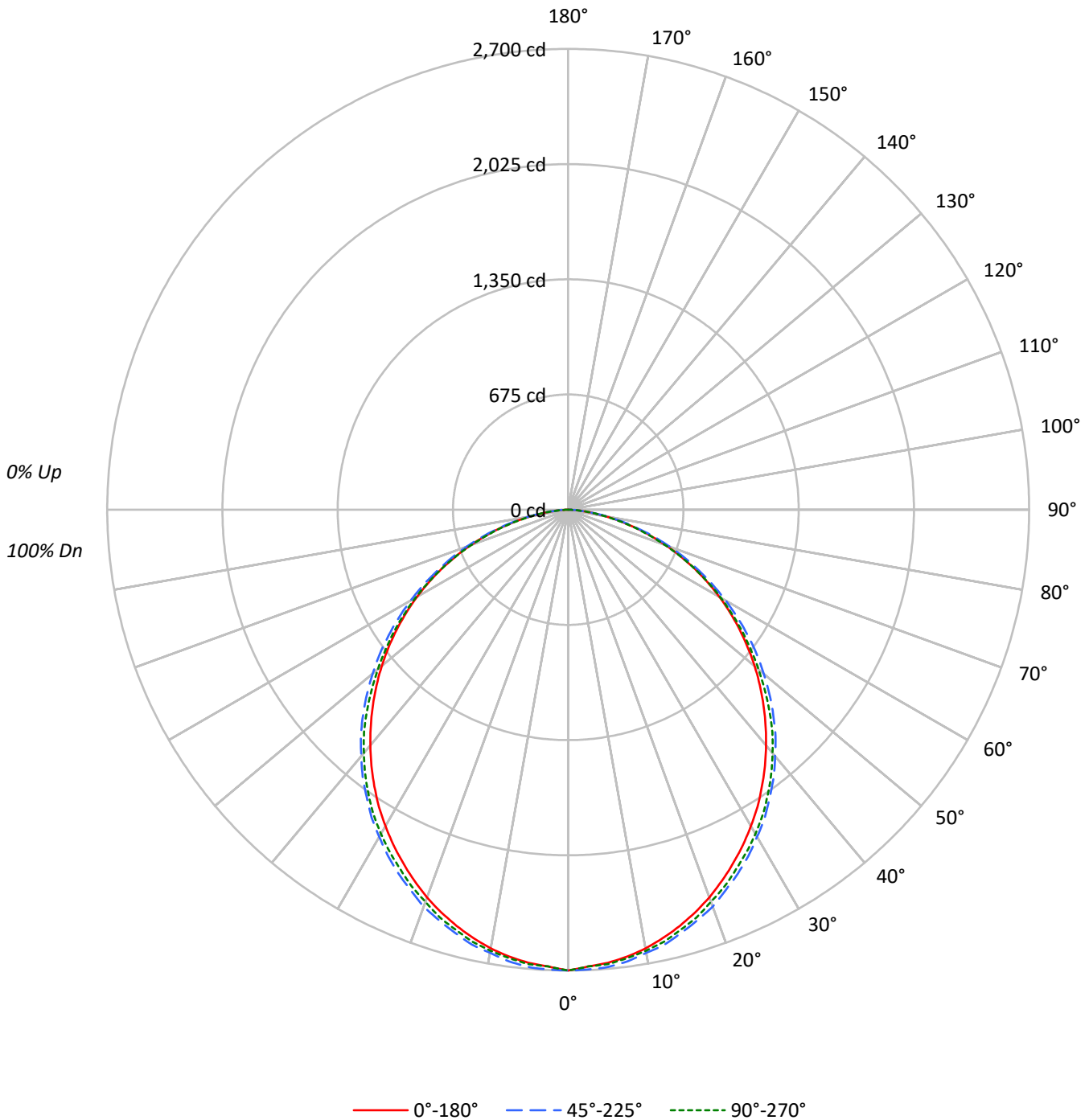
Lumens per Lamp: N/A
Luminaire Lumens: 7098.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7265	7265	7265
5°	7198	7266	7221
10°	7132	7204	7170
15°	7034	7147	7097
20°	6923	7087	7002
25°	6788	6985	6905
30°	6651	6876	6814
35°	6501	6759	6696
40°	6332	6624	6540
45°	6154	6465	6343
50°	5969	6258	6094
55°	5753	6022	5837
60°	5508	5737	5559
65°	5191	5389	5195
70°	4777	4969	4723
75°	4206	4396	4141
80°	3417	3566	3378
85°	2381	2535	2476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	3.6
10°-20°	720.6	10.2
20°-30°	1074.7	15.1
30°-40°	1273.5	17.9
40°-50°	1288.6	18.2
50°-60°	1125.4	15.9
60°-70°	822.4	11.6
70°-80°	437.6	6.2
80°-90°	101.1	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°	2049.6	28.9
0°-40°	3323.1	46.8
0°-60°	5737.2	80.8
0°-90°	7098.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7098.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2700	2700	2700	2700	2700	
5°	2665	2670	2690	2696	2673	253
15°	2525	2542	2566	2581	2548	712
25°	2286	2314	2352	2361	2326	1053
35°	1979	2010	2057	2072	2038	1238
45°	1617	1646	1699	1700	1667	1248
55°	1226	1251	1284	1265	1244	1096
65°	815	832	846	830	816	807
75°	404	414	423	407	398	430
85°	77	78	82	83	80	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2699.9	2699.9	2699.9	2699.9	2699.9
2.5°	2678.8	2687.6	2696.6	2700.5	2678.6
5°	2664.8	2669.8	2689.8	2696.0	2673.2
7.5°	2641.7	2649.3	2668.7	2671.5	2649.6
10°	2610.2	2623.7	2636.6	2650.7	2624.0
12.5°	2570.0	2588.3	2610.2	2612.7	2592.5
15°	2524.7	2541.6	2565.5	2580.9	2547.5
17.5°	2474.1	2490.4	2521.3	2524.1	2503.9
20°	2417.5	2437.8	2474.9	2481.4	2445.1
22.5°	2353.4	2380.7	2411.6	2417.8	2391.1
25°	2286.1	2314.3	2352.5	2361.3	2325.5
27.5°	2215.8	2242.8	2285.9	2292.1	2262.0
30°	2140.4	2165.7	2213.0	2223.4	2192.8
32.5°	2063.9	2089.2	2141.6	2150.3	2120.5
35°	1979.0	2009.9	2057.4	2071.8	2038.3
37.5°	1892.3	1922.4	1976.4	1989.4	1953.4
40°	1802.6	1832.4	1885.6	1896.3	1861.7
42.5°	1710.9	1740.7	1797.5	1799.2	1770.5
45°	1617.2	1645.9	1698.8	1700.2	1666.7
47.5°	1522.1	1551.1	1598.4	1593.0	1561.5
50°	1425.9	1453.5	1494.8	1484.2	1455.7
52.5°	1326.3	1353.1	1392.2	1374.7	1348.0
55°	1226.2	1251.0	1283.6	1265.0	1244.2
57.5°	1125.2	1150.2	1175.3	1156.4	1138.4
60°	1023.4	1045.3	1065.9	1046.7	1032.9
62.5°	919.9	938.7	956.4	938.1	925.2
65°	815.2	831.8	846.4	829.6	815.8
67.5°	711.1	725.2	738.7	721.3	706.9
70°	607.1	619.1	631.5	613.5	600.3
72.5°	504.4	515.1	526.0	508.6	497.1
75°	404.5	413.8	422.8	407.3	398.3
77.5°	309.2	317.0	323.2	313.4	304.7
80°	220.5	226.4	230.1	226.2	218.0
82.5°	141.8	146.0	148.0	147.7	142.3
85°	77.1	78.5	82.1	83.0	80.2
87.5°	29.8	31.8	32.6	35.2	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)