

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: P488574

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-40-120-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: P488574
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-LD4-2HI-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

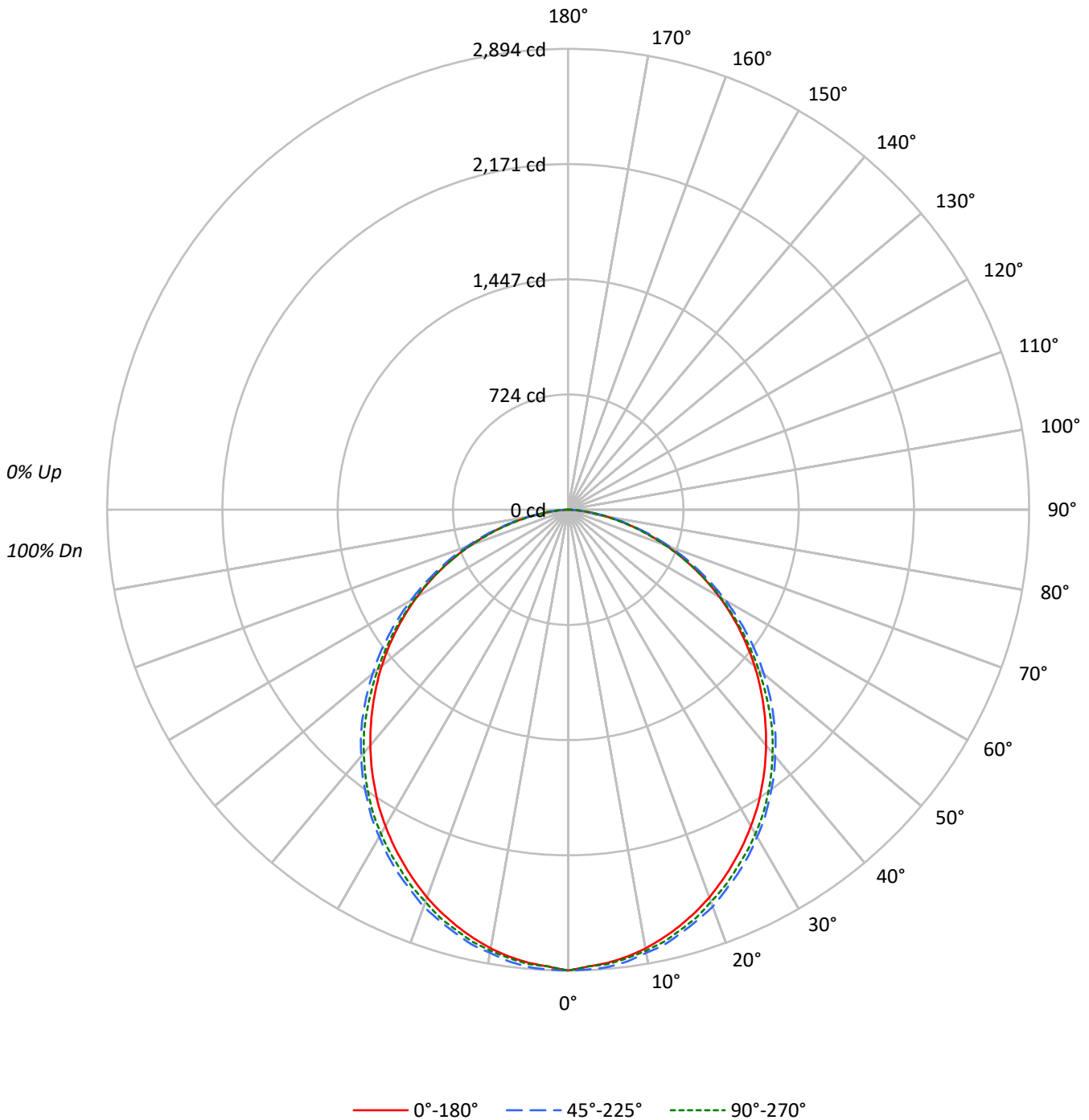
Lumens per Lamp: N/A
Luminaire Lumens: 7608.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	7787	7787	7787
5°	7715	7788	7740
10°	7645	7722	7685
15°	7539	7661	7607
20°	7420	7596	7505
25°	7276	7487	7401
30°	7129	7370	7303
35°	6968	7245	7177
40°	6787	7099	7009
45°	6597	6929	6799
50°	6399	6707	6532
55°	6166	6455	6257
60°	5903	6148	5959
65°	5564	5777	5568
70°	5120	5326	5062
75°	4508	4712	4439
80°	3663	3821	3622
85°	2550	2717	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	3.6
10°-20°	772.4	10.2
20°-30°	1151.9	15.1
30°-40°	1365.0	17.9
40°-50°	1381.2	18.2
50°-60°	1206.3	15.9
60°-70°	881.5	11.6
70°-80°	469.0	6.2
80°-90°	108.4	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°	2196.8	28.9
0°-40°	3561.9	46.8
0°-60°	6149.4	80.8
0°-90°	7608.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7608.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2894	2894	2894	2894	2894	
5°	2856	2862	2883	2890	2865	271
15°	2706	2724	2750	2766	2730	763
25°	2450	2481	2522	2531	2493	1129
35°	2121	2154	2205	2221	2185	1326
45°	1733	1764	1821	1822	1786	1337
55°	1314	1341	1376	1356	1334	1175
65°	874	892	907	889	874	865
75°	434	444	453	437	427	461
85°	83	84	88	89	86	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	2871.3	2880.7	2890.3	2894.5	2871.0
5°	2856.2	2861.7	2883.1	2889.7	2865.3
7.5°	2831.5	2839.7	2860.5	2863.5	2840.0
10°	2797.7	2812.2	2826.1	2841.2	2812.5
12.5°	2754.6	2774.2	2797.7	2800.5	2778.7
15°	2706.1	2724.2	2749.8	2766.4	2730.5
17.5°	2651.8	2669.3	2702.5	2705.5	2683.8
20°	2591.2	2612.9	2652.7	2659.7	2620.8
22.5°	2522.5	2551.7	2584.9	2591.5	2562.9
25°	2450.4	2480.6	2521.6	2530.9	2492.6
27.5°	2375.0	2404.0	2450.1	2456.7	2424.5
30°	2294.2	2321.4	2372.0	2383.2	2350.3
32.5°	2212.2	2239.3	2295.4	2304.8	2272.8
35°	2121.1	2154.3	2205.3	2220.6	2184.8
37.5°	2028.3	2060.5	2118.4	2132.3	2093.7
40°	1932.1	1964.1	2021.0	2032.5	1995.4
42.5°	1833.8	1865.8	1926.7	1928.5	1897.7
45°	1733.4	1764.2	1820.8	1822.3	1786.5
47.5°	1631.5	1662.5	1713.2	1707.5	1673.7
50°	1528.4	1557.9	1602.2	1590.8	1560.3
52.5°	1421.6	1450.3	1492.2	1473.5	1444.9
55°	1314.3	1340.8	1375.8	1355.9	1333.6
57.5°	1206.1	1232.9	1259.7	1239.5	1220.2
60°	1096.9	1120.4	1142.4	1121.9	1107.2
62.5°	985.9	1006.2	1025.1	1005.5	991.7
65°	873.8	891.6	907.3	889.2	874.4
67.5°	762.2	777.3	791.8	773.1	757.7
70°	650.7	663.6	676.9	657.6	643.4
72.5°	540.6	552.1	563.8	545.1	532.8
75°	433.6	443.5	453.2	436.6	426.9
77.5°	331.4	339.8	346.4	335.9	326.5
80°	236.4	242.7	246.6	242.4	233.7
82.5°	152.0	156.5	158.6	158.3	152.6
85°	82.6	84.1	88.0	88.9	85.9
87.5°	32.0	34.1	35.0	37.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)