

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: P556023

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-87-EDD**

Issue Date: 7/16/2021

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: P556023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3STD-40-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

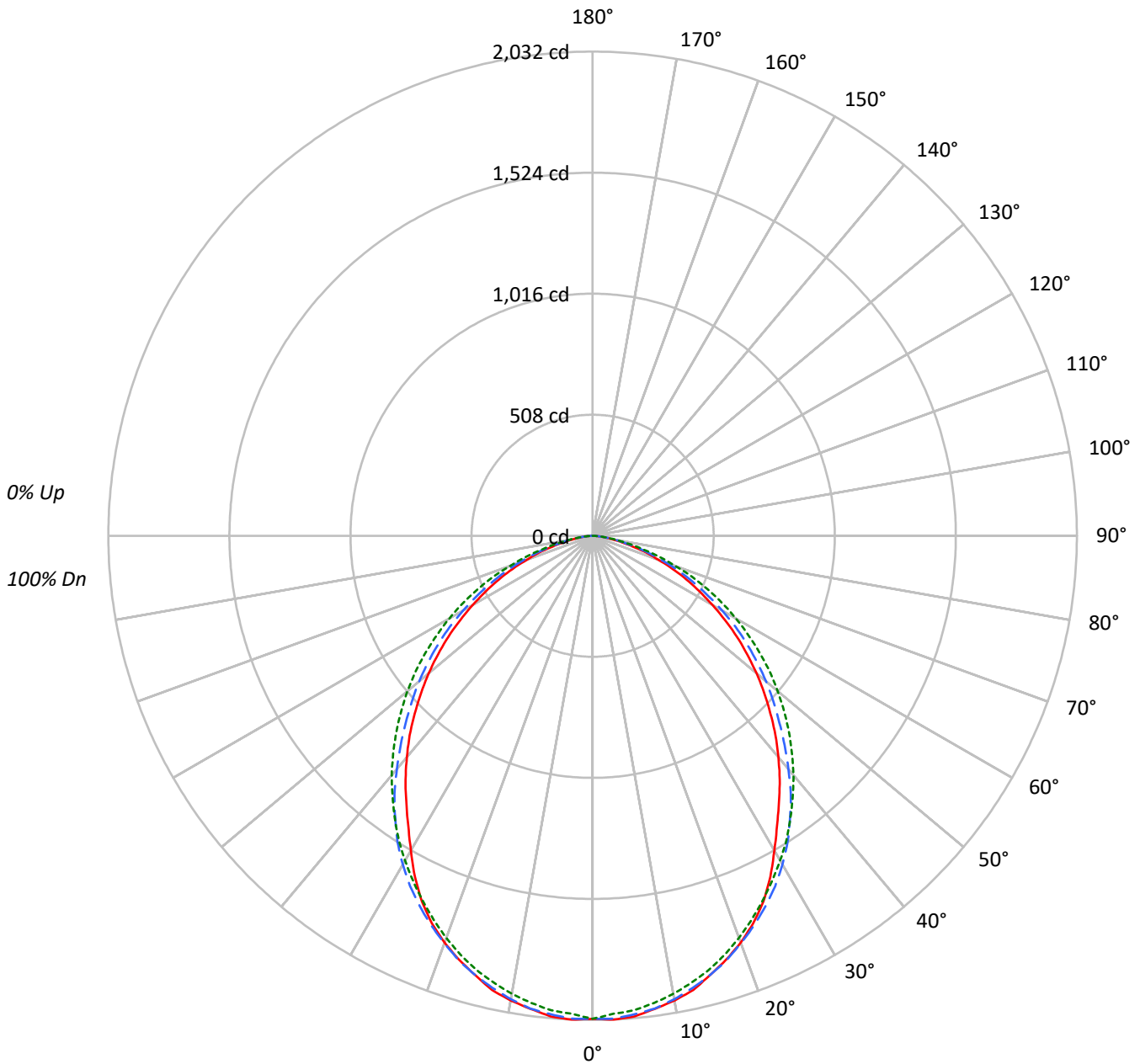
Lumens per Lamp: N/A
Luminaire Lumens: 4687.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73								
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63								
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54								
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47								
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42								
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37								
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34								
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10909	10909	10909
5°	10938	10892	10800
10°	10822	10792	10669
15°	10630	10630	10509
20°	10405	10419	10285
25°	10063	10187	10026
30°	9475	9902	9780
35°	8954	9491	9506
40°	8519	8978	9213
45°	8031	8434	8867
50°	7518	7948	8489
55°	6934	7395	8030
60°	6244	6748	7468
65°	5514	5999	6793
70°	4595	5109	5772
75°	3612	4080	4519
80°	2582	2873	3186
85°	1686	1686	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	4.1
10°-20°	536.1	11.4
20°-30°	783.5	16.7
30°-40°	889.4	19.0
40°-50°	858.5	18.3
50°-60°	708.2	15.1
60°-70°	471.6	10.1
70°-80°	211.0	4.5
80°-90°	37.8	0.8
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°	1510.5	32.2
0°-40°	2399.8	51.2
0°-60°	3966.6	84.6
0°-90°	4687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2025	2024	2016	2005	1999	192
15°	1908	1912	1908	1899	1886	538
25°	1694	1708	1716	1703	1688	776
35°	1363	1381	1444	1452	1447	854
45°	1055	1073	1108	1159	1165	814
55°	739	752	788	832	856	660
65°	433	445	471	505	533	429
75°	174	183	196	206	217	190
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.0	2027.0	2027.0	2027.0	2027.0
2.5°	2032.5	2033.2	2028.6	2016.1	2008.3
5°	2024.7	2023.9	2016.1	2005.2	1999.0
7.5°	2002.1	2003.6	2001.3	1985.7	1977.2
10°	1980.3	1981.1	1974.8	1962.4	1952.2
12.5°	1952.2	1951.5	1942.9	1936.7	1920.3
15°	1907.9	1912.5	1907.9	1899.3	1886.1
17.5°	1865.0	1865.0	1868.1	1853.4	1843.2
20°	1816.8	1819.1	1819.1	1807.4	1795.7
22.5°	1760.7	1767.7	1770.0	1757.6	1743.6
25°	1694.5	1707.7	1715.5	1703.1	1688.3
27.5°	1614.3	1634.5	1657.9	1648.5	1632.2
30°	1524.7	1554.3	1593.3	1585.5	1573.8
32.5°	1439.9	1469.4	1523.2	1520.1	1513.8
35°	1362.8	1381.4	1444.5	1452.3	1446.9
37.5°	1289.6	1306.7	1365.9	1383.8	1379.1
40°	1212.5	1231.2	1277.9	1309.8	1311.4
42.5°	1136.2	1154.1	1192.2	1238.2	1238.2
45°	1055.2	1073.1	1108.1	1158.7	1165.0
47.5°	975.7	994.4	1028.7	1079.3	1089.4
50°	897.9	915.0	949.3	998.3	1013.9
52.5°	816.9	835.6	869.1	914.2	936.8
55°	739.0	751.5	788.1	831.7	855.8
57.5°	658.0	669.7	711.0	748.3	773.3
60°	580.1	594.9	626.9	665.0	693.8
62.5°	505.4	521.0	548.2	581.7	614.4
65°	433.0	444.6	471.1	504.6	533.4
67.5°	362.9	373.0	399.5	422.8	453.2
70°	292.0	305.3	324.7	347.3	366.8
72.5°	235.2	240.6	257.0	273.3	293.6
75°	173.7	183.0	196.2	205.6	217.3
77.5°	124.6	130.0	137.8	145.6	156.5
80°	83.3	85.7	92.7	94.2	102.8
82.5°	50.6	52.2	53.7	54.5	57.6
85°	27.3	27.3	27.3	25.7	25.7
87.5°	15.6	15.6	13.2	10.9	7.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)