

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: P556005

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-86-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: P556005
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-35-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

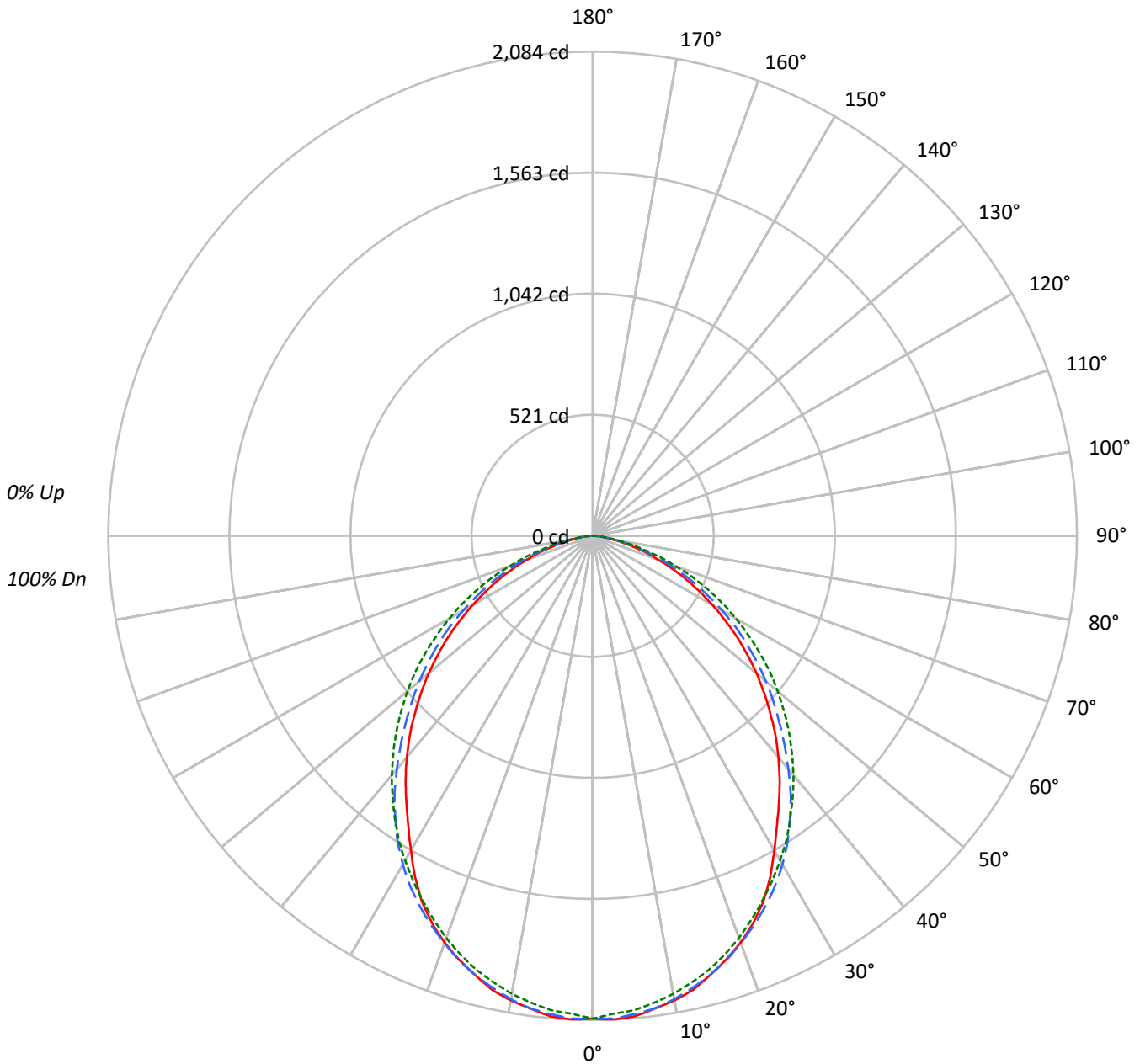
Lumens per Lamp: N/A
Luminaire Lumens: 4806.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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									
RC	80									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°	11186	11186	11186
5°	11216	11169	11074
10°	11097	11067	10940
15°	10900	10900	10775
20°	10669	10683	10546
25°	10318	10446	10280
30°	9716	10153	10028
35°	9181	9732	9747
40°	8734	9206	9447
45°	8235	8649	9092
50°	7709	8150	8704
55°	7111	7583	8234
60°	6403	6919	7659
65°	5654	6152	6966
70°	4711	5240	5918
75°	3703	4184	4633
80°	2647	2944	3267
85°	1723	1723	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	4.1
10°-20°	549.8	11.4
20°-30°	803.4	16.7
30°-40°	911.9	19.0
40°-50°	880.3	18.3
50°-60°	726.2	15.1
60°-70°	483.6	10.1
70°-80°	216.4	4.5
80°-90°	38.7	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°	1548.8	32.2
0°-40°	2460.8	51.2
0°-60°	4067.3	84.6
0°-90°	4806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2076	2075	2067	2056	2050	196
15°	1956	1961	1956	1948	1934	551
25°	1738	1751	1759	1746	1731	796
35°	1397	1416	1481	1489	1484	876
45°	1082	1100	1136	1188	1194	835
55°	758	770	808	853	878	676
65°	444	456	483	517	547	440
75°	178	188	201	211	223	195
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2078.5	2078.5	2078.5	2078.5	2078.5
2.5°	2084.1	2084.9	2080.1	2067.3	2059.3
5°	2076.1	2075.3	2067.3	2056.1	2049.7
7.5°	2052.9	2054.5	2052.1	2036.2	2027.4
10°	2030.6	2031.4	2025.0	2012.2	2001.8
12.5°	2001.8	2001.0	1992.2	1985.8	1969.1
15°	1956.3	1961.1	1956.3	1947.5	1933.9
17.5°	1912.4	1912.4	1915.6	1900.4	1890.0
20°	1862.9	1865.3	1865.3	1853.3	1841.3
22.5°	1805.4	1812.6	1815.0	1802.2	1787.8
25°	1737.5	1751.1	1759.1	1746.3	1731.1
27.5°	1655.3	1676.0	1700.0	1690.4	1673.6
30°	1563.4	1593.8	1633.7	1625.7	1613.7
32.5°	1476.4	1506.8	1561.8	1558.7	1552.3
35°	1397.4	1416.5	1481.2	1489.2	1483.6
37.5°	1322.3	1339.9	1400.6	1418.9	1414.1
40°	1243.2	1262.4	1310.3	1343.1	1344.7
42.5°	1165.0	1183.4	1222.5	1269.6	1269.6
45°	1082.0	1100.3	1136.3	1188.2	1194.5
47.5°	1000.5	1019.7	1054.8	1106.7	1117.1
50°	920.7	938.2	973.4	1023.7	1039.6
52.5°	837.6	856.8	891.1	937.4	960.6
55°	757.8	770.5	808.1	852.8	877.5
57.5°	674.7	686.7	729.0	767.3	792.9
60°	594.9	610.0	642.8	681.9	711.5
62.5°	518.2	534.2	562.1	596.5	630.0
65°	444.0	455.9	483.1	517.4	547.0
67.5°	372.1	382.5	409.6	433.6	464.7
70°	299.4	313.0	333.0	356.1	376.1
72.5°	241.1	246.7	263.5	280.3	301.0
75°	178.1	187.6	201.2	210.8	222.8
77.5°	127.8	133.3	141.3	149.3	160.5
80°	85.4	87.8	95.0	96.6	105.4
82.5°	51.9	53.5	55.1	55.9	59.1
85°	27.9	27.9	27.9	26.4	26.4
87.5°	16.0	16.0	13.6	11.2	8.0
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)