

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: P555486

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-97-EDD-90**

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: P555486
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-LD4-3HI-35-UNV-82-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

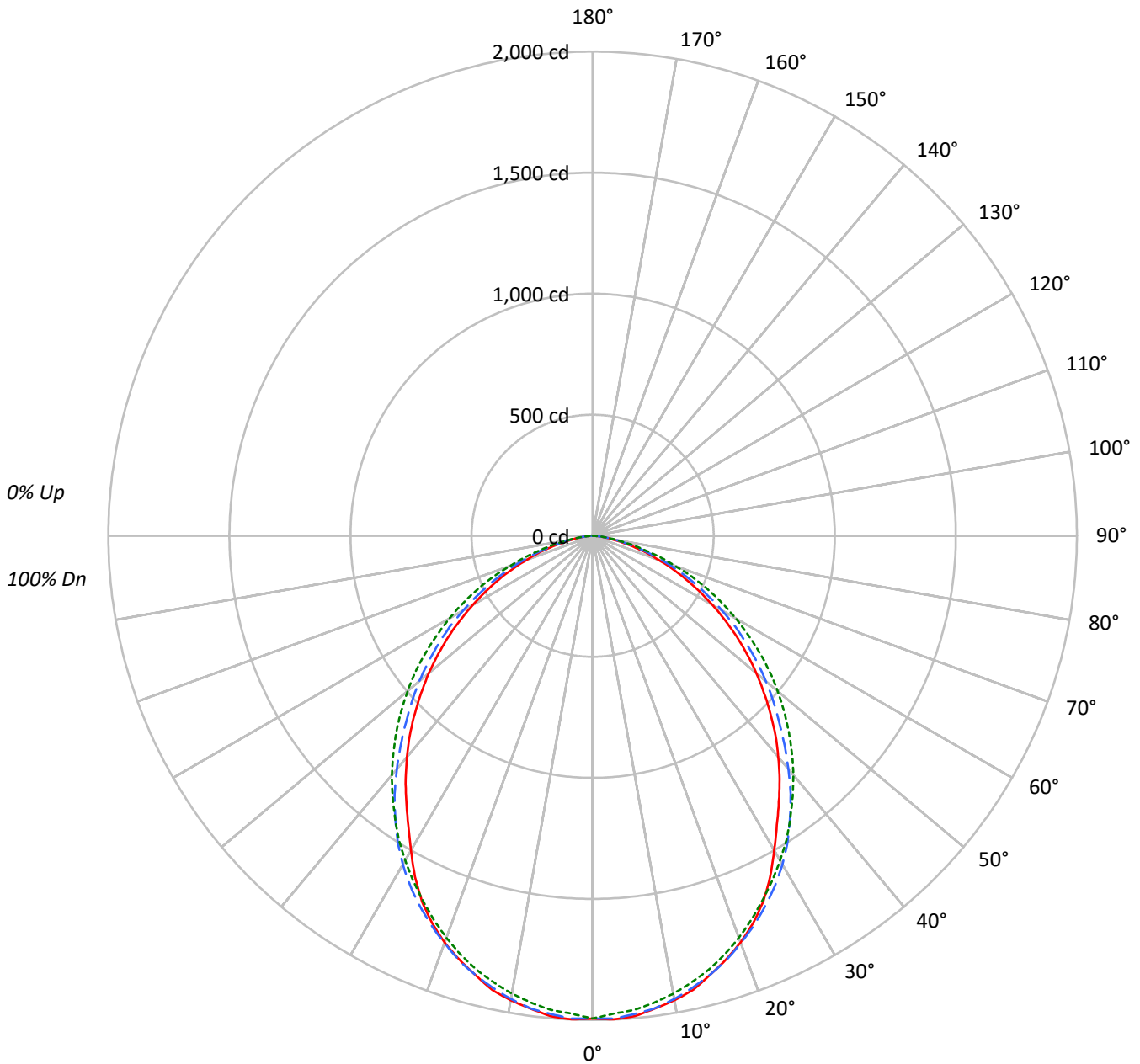
Lumens per Lamp: N/A
Luminaire Lumens: 4611.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	10732	10732	10732
5°	10761	10715	10625
10°	10647	10617	10496
15°	10458	10458	10338
20°	10237	10250	10118
25°	9899	10022	9863
30°	9322	9741	9622
35°	8809	9337	9352
40°	8380	8833	9064
45°	7901	8297	8723
50°	7396	7819	8352
55°	6822	7275	7900
60°	6143	6638	7347
65°	5424	5903	6683
70°	4521	5028	5677
75°	3552	4015	4444
80°	2541	2827	3133
85°	1655	1655	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	4.1
10°-20°	527.5	11.4
20°-30°	770.8	16.7
30°-40°	874.9	19.0
40°-50°	844.6	18.3
50°-60°	696.7	15.1
60°-70°	464.0	10.1
70°-80°	207.6	4.5
80°-90°	37.1	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°	1486.0	32.2
0°-40°	2360.9	51.2
0°-60°	3902.2	84.6
0°-90°	4611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1992	1991	1983	1973	1967	189
15°	1877	1882	1877	1868	1856	529
25°	1667	1680	1688	1675	1661	763
35°	1341	1359	1421	1429	1423	840
45°	1038	1056	1090	1140	1146	801
55°	727	739	775	818	842	649
65°	426	437	464	496	525	422
75°	171	180	193	202	214	187
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.1	1994.1	1994.1	1994.1	1994.1
2.5°	1999.5	2000.3	1995.7	1983.4	1975.8
5°	1991.8	1991.1	1983.4	1972.7	1966.6
7.5°	1969.6	1971.2	1968.9	1953.5	1945.1
10°	1948.2	1948.9	1942.8	1930.6	1920.6
12.5°	1920.6	1919.8	1911.4	1905.3	1889.2
15°	1876.9	1881.5	1876.9	1868.5	1855.5
17.5°	1834.8	1834.8	1837.9	1823.3	1813.3
20°	1787.3	1789.6	1789.6	1778.1	1766.6
22.5°	1732.1	1739.0	1741.3	1729.1	1715.3
25°	1667.0	1680.0	1687.7	1675.4	1660.9
27.5°	1588.1	1608.0	1631.0	1621.8	1605.7
30°	1500.0	1529.1	1567.4	1559.8	1548.3
32.5°	1416.5	1445.6	1498.5	1495.4	1489.3
35°	1340.7	1359.0	1421.1	1428.8	1423.4
37.5°	1268.6	1285.5	1343.7	1361.3	1356.7
40°	1192.8	1211.2	1257.2	1288.6	1290.1
42.5°	1117.7	1135.3	1172.9	1218.1	1218.1
45°	1038.1	1055.7	1090.1	1139.9	1146.1
47.5°	959.9	978.3	1012.0	1061.8	1071.8
50°	883.3	900.2	933.9	982.1	997.5
52.5°	803.6	822.0	855.0	899.4	921.6
55°	727.0	739.3	775.3	818.2	841.9
57.5°	647.3	658.8	699.4	736.2	760.7
60°	570.7	585.3	616.7	654.2	682.6
62.5°	497.2	512.5	539.3	572.3	604.4
65°	425.9	437.4	463.5	496.4	524.8
67.5°	357.0	367.0	393.0	416.0	445.9
70°	287.3	300.3	319.5	341.7	360.8
72.5°	231.4	236.7	252.8	268.9	288.8
75°	170.8	180.0	193.1	202.2	213.7
77.5°	122.6	127.9	135.6	143.3	154.0
80°	82.0	84.3	91.2	92.7	101.1
82.5°	49.8	51.3	52.9	53.6	56.7
85°	26.8	26.8	26.8	25.3	25.3
87.5°	15.3	15.3	13.0	10.7	7.7
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)