

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: P555995

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-94-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: P555995
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

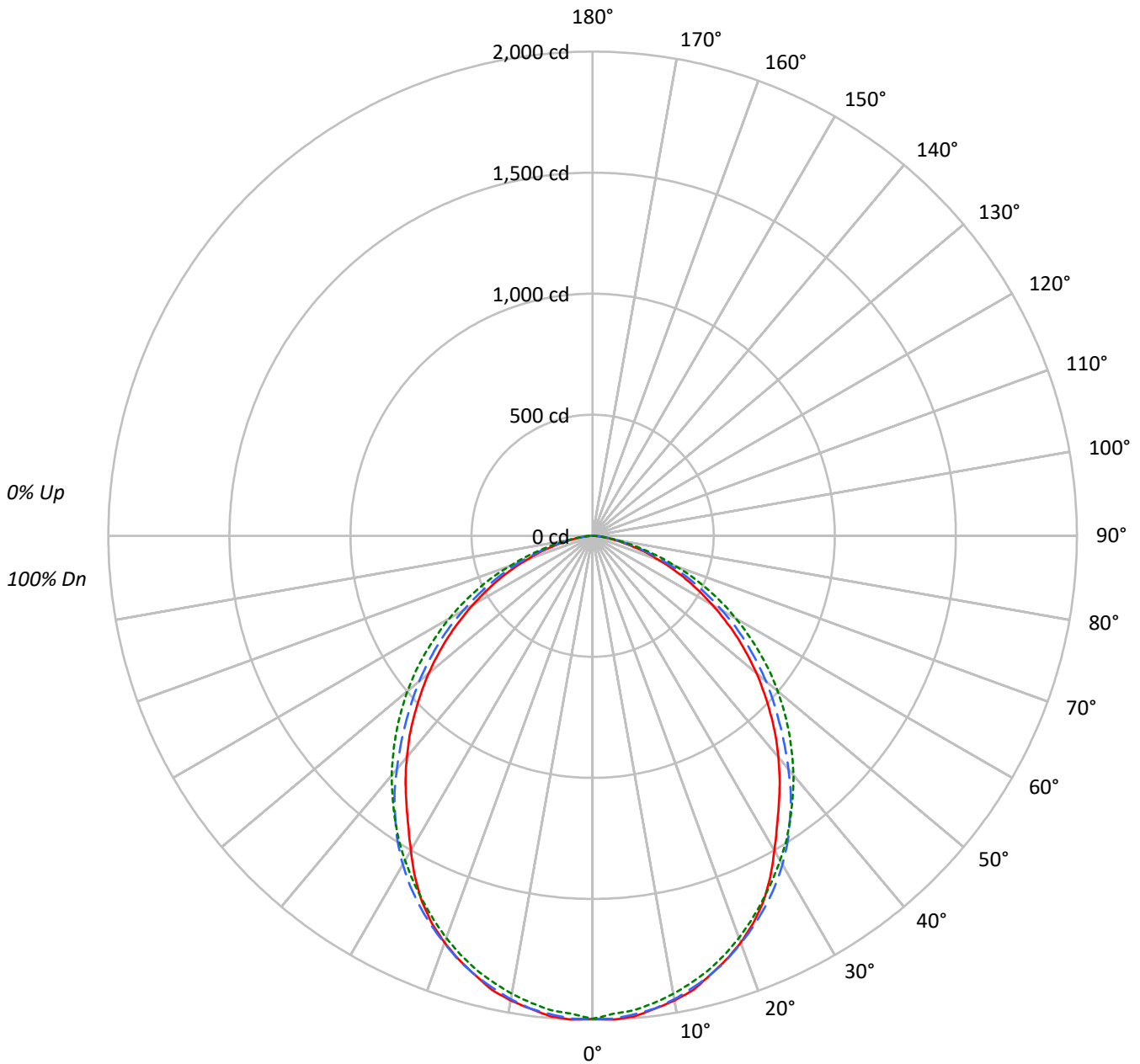
Lumens per Lamp: N/A
Luminaire Lumens: 4612.9 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10737	10737	10737
5°	10766	10720	10629
10°	10651	10622	10500
15°	10462	10462	10343
20°	10241	10254	10123
25°	9903	10026	9867
30°	9326	9745	9626
35°	8812	9341	9356
40°	8384	8836	9068
45°	7904	8301	8727
50°	7399	7823	8355
55°	6824	7278	7903
60°	6146	6641	7351
65°	5426	5905	6686
70°	4522	5029	5681
75°	3554	4015	4446
80°	2541	2827	3137
85°	1655	1655	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	4.1
10°-20°	527.7	11.4
20°-30°	771.1	16.7
30°-40°	875.3	19.0
40°-50°	845.0	18.3
50°-60°	697.0	15.1
60°-70°	464.2	10.1
70°-80°	207.7	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°	1486.6	32.2
0°-40°	2361.9	51.2
0°-60°	3903.9	84.6
0°-90°	4612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1993	1992	1984	1974	1967	189
15°	1878	1882	1878	1869	1856	529
25°	1668	1681	1688	1676	1662	764
35°	1341	1360	1422	1429	1424	840
45°	1038	1056	1091	1140	1147	801
55°	727	740	776	818	842	649
65°	426	438	464	497	525	423
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°	1995.0	1995.0	1995.0	1995.0	1995.0
2.5°	2000.4	2001.1	1996.5	1984.3	1976.6
5°	1992.7	1991.9	1984.3	1973.5	1967.4
7.5°	1970.5	1972.0	1969.7	1954.4	1946.0
10°	1949.0	1949.8	1943.7	1931.4	1921.4
12.5°	1921.4	1920.7	1912.2	1906.1	1890.0
15°	1877.7	1882.3	1877.7	1869.3	1856.3
17.5°	1835.6	1835.6	1838.7	1824.1	1814.1
20°	1788.1	1790.4	1790.4	1778.9	1767.4
22.5°	1732.9	1739.8	1742.1	1729.8	1716.0
25°	1667.7	1680.8	1688.4	1676.2	1661.6
27.5°	1588.8	1608.7	1631.7	1622.5	1606.4
30°	1500.7	1529.8	1568.1	1560.4	1548.9
32.5°	1417.1	1446.2	1499.1	1496.1	1489.9
35°	1341.2	1359.6	1421.7	1429.4	1424.0
37.5°	1269.2	1286.1	1344.3	1361.9	1357.3
40°	1193.3	1211.7	1257.7	1289.1	1290.7
42.5°	1118.2	1135.8	1173.4	1218.6	1218.6
45°	1038.5	1056.1	1090.6	1140.4	1146.6
47.5°	960.3	978.7	1012.4	1062.3	1072.2
50°	883.7	900.5	934.3	982.6	997.9
52.5°	804.0	822.4	855.3	899.8	922.0
55°	727.3	739.6	775.6	818.5	842.3
57.5°	647.6	659.1	699.7	736.5	761.1
60°	571.0	585.5	617.0	654.5	682.9
62.5°	497.4	512.7	539.6	572.5	604.7
65°	426.1	437.6	463.7	496.6	525.0
67.5°	357.2	367.1	393.2	416.2	446.1
70°	287.4	300.4	319.6	341.8	361.0
72.5°	231.5	236.8	252.9	269.0	288.9
75°	170.9	180.1	193.1	202.3	213.8
77.5°	122.6	128.0	135.7	143.3	154.1
80°	82.0	84.3	91.2	92.7	101.2
82.5°	49.8	51.4	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)