

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: P555949

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-96-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: P555949
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-30-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

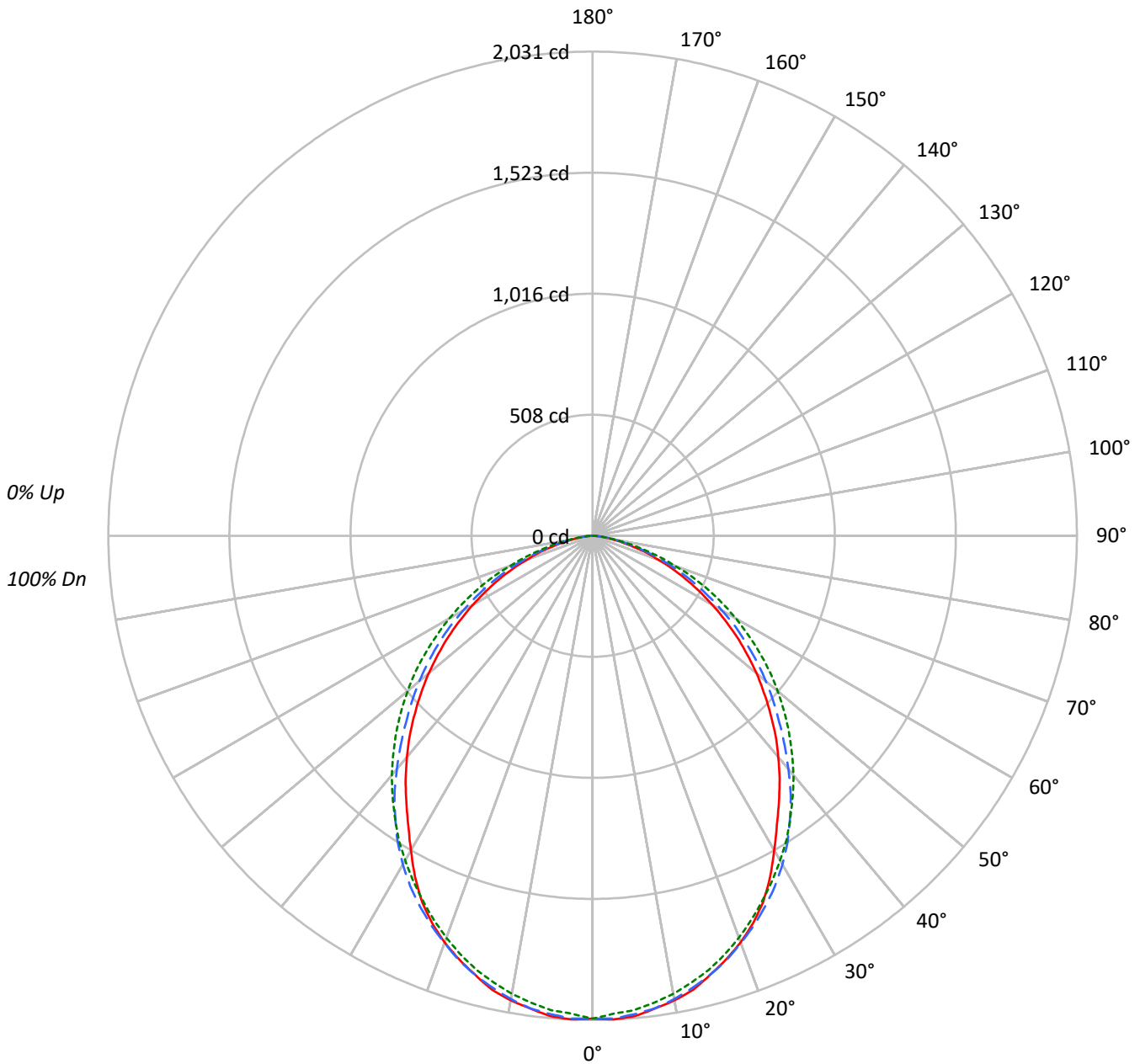
Lumens per Lamp: N/A
Luminaire Lumens: 4683.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-93-96-EDD

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°	10900	10900	10900
5°	10929	10883	10790
10°	10813	10783	10660
15°	10621	10621	10500
20°	10396	10409	10276
25°	10054	10179	10017
30°	9467	9893	9772
35°	8946	9483	9498
40°	8511	8970	9205
45°	8025	8427	8859
50°	7511	7941	8482
55°	6929	7388	8024
60°	6240	6741	7462
65°	5509	5994	6788
70°	4592	5105	5767
75°	3608	4078	4514
80°	2582	2870	3183
85°	1680	1680	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.1
10°-20°	535.7	11.4
20°-30°	782.8	16.7
30°-40°	888.6	19.0
40°-50°	857.8	18.3
50°-60°	707.6	15.1
60°-70°	471.2	10.1
70°-80°	210.9	4.5
80°-90°	37.7	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°	1509.2	32.2
0°-40°	2397.8	51.2
0°-60°	3963.2	84.6
0°-90°	4683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2023	2022	2014	2004	1997	191
15°	1906	1911	1906	1898	1884	537
25°	1693	1706	1714	1702	1687	775
35°	1362	1380	1443	1451	1446	853
45°	1054	1072	1107	1158	1164	813
55°	738	751	787	831	855	659
65°	433	444	471	504	533	429
75°	174	183	196	205	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°	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2030.7	2031.5	2026.8	2014.4	2006.6
5°	2022.9	2022.2	2014.4	2003.5	1997.3
7.5°	2000.4	2001.9	1999.6	1984.0	1975.5
10°	1978.6	1979.4	1973.1	1960.7	1950.6
12.5°	1950.6	1949.8	1941.2	1935.0	1918.7
15°	1906.2	1910.9	1906.2	1897.7	1884.4
17.5°	1863.4	1863.4	1866.6	1851.8	1841.7
20°	1815.2	1817.5	1817.5	1805.9	1794.2
22.5°	1759.2	1766.2	1768.5	1756.1	1742.1
25°	1693.0	1706.3	1714.1	1701.6	1686.8
27.5°	1612.9	1633.1	1656.5	1647.1	1630.8
30°	1523.4	1553.0	1591.9	1584.1	1572.4
32.5°	1438.6	1468.2	1521.9	1518.8	1512.5
35°	1361.6	1380.3	1443.3	1451.1	1445.6
37.5°	1288.5	1305.6	1364.7	1382.6	1377.9
40°	1211.4	1230.1	1276.8	1308.7	1310.2
42.5°	1135.2	1153.1	1191.2	1237.1	1237.1
45°	1054.3	1072.2	1107.2	1157.7	1164.0
47.5°	974.9	993.6	1027.8	1078.4	1088.5
50°	897.1	914.2	948.4	997.5	1013.0
52.5°	816.2	834.9	868.3	913.4	936.0
55°	738.4	750.8	787.4	831.0	855.1
57.5°	657.5	669.1	710.4	747.7	772.6
60°	579.7	594.4	626.3	664.5	693.2
62.5°	505.0	520.5	547.8	581.2	613.9
65°	432.6	444.3	470.7	504.2	533.0
67.5°	362.6	372.7	399.1	422.5	452.8
70°	291.8	305.0	324.4	347.0	366.5
72.5°	235.0	240.4	256.8	273.1	293.3
75°	173.5	182.8	196.1	205.4	217.1
77.5°	124.5	129.9	137.7	145.5	156.4
80°	83.3	85.6	92.6	94.1	102.7
82.5°	50.6	52.1	53.7	54.5	57.6
85°	27.2	27.2	27.2	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)