

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: P556089

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-88-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: P556089
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-50-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

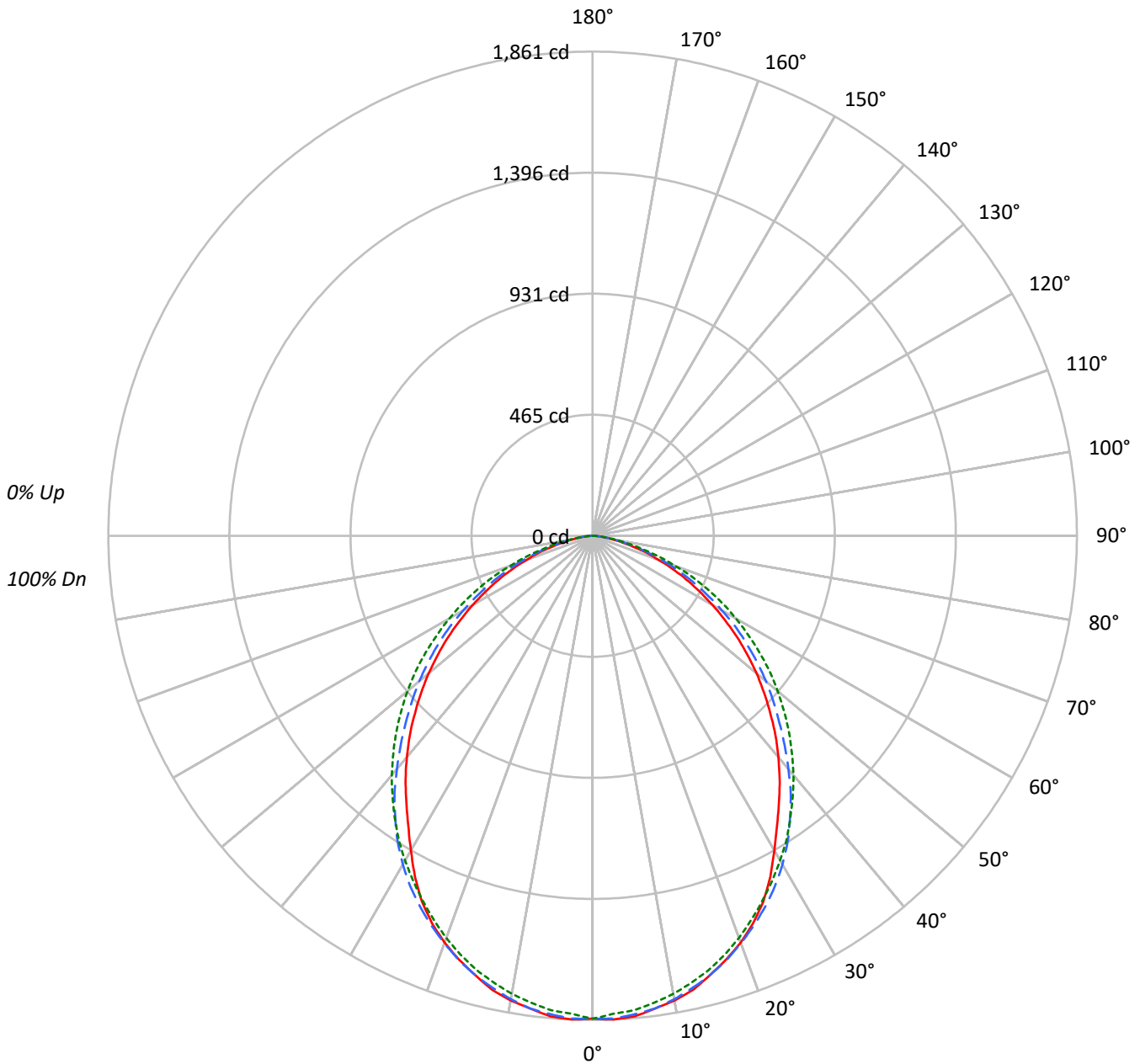
Lumens per Lamp: N/A
Luminaire Lumens: 4292.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P556089

CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-80-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P556089

CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-80-88-EDD

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°	9990	9990	9990
5°	10016	9974	9889
10°	9910	9883	9770
15°	9735	9735	9623
20°	9528	9541	9418
25°	9215	9329	9181
30°	8677	9067	8956
35°	8199	8691	8705
40°	7801	8221	8436
45°	7354	7723	8120
50°	6884	7279	7773
55°	6350	6771	7354
60°	5719	6178	6839
65°	5049	5494	6221
70°	4208	4680	5286
75°	3306	3737	4138
80°	2365	2631	2916
85°	1544	1544	1451



TEST NUMBER: P556089

CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-80-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	4.1
10°-20°	491.0	11.4
20°-30°	717.5	16.7
30°-40°	814.4	19.0
40°-50°	786.2	18.3
50°-60°	648.5	15.1
60°-70°	431.9	10.1
70°-80°	193.3	4.5
80°-90°	34.6	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°	1383.2	32.2
0°-40°	2197.6	51.2
0°-60°	3632.3	84.6
0°-90°	4292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1854	1853	1846	1836	1830	175
15°	1747	1751	1747	1739	1727	493
25°	1552	1564	1571	1560	1546	711
35°	1248	1265	1323	1330	1325	782
45°	966	983	1015	1061	1067	746
55°	677	688	722	762	784	604
65°	396	407	431	462	488	393
75°	159	168	180	188	199	174
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



TEST NUMBER: P556089

CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-80-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.2	1856.2	1856.2	1856.2	1856.2
2.5°	1861.2	1861.9	1857.6	1846.2	1839.1
5°	1854.0	1853.3	1846.2	1836.2	1830.5
7.5°	1833.4	1834.8	1832.6	1818.4	1810.5
10°	1813.4	1814.1	1808.4	1797.0	1787.7
12.5°	1787.7	1787.0	1779.2	1773.5	1758.5
15°	1747.1	1751.4	1747.1	1739.2	1727.1
17.5°	1707.9	1707.9	1710.7	1697.2	1687.9
20°	1663.6	1665.8	1665.8	1655.1	1644.4
22.5°	1612.3	1618.7	1620.9	1609.4	1596.6
25°	1551.7	1563.8	1570.9	1559.5	1546.0
27.5°	1478.2	1496.8	1518.2	1509.6	1494.6
30°	1396.2	1423.3	1459.0	1451.9	1441.2
32.5°	1318.5	1345.6	1394.8	1392.0	1386.3
35°	1247.9	1265.0	1322.8	1329.9	1324.9
37.5°	1180.9	1196.6	1250.8	1267.2	1262.9
40°	1110.3	1127.4	1170.2	1199.4	1200.8
42.5°	1040.4	1056.8	1091.7	1133.8	1133.8
45°	966.2	982.6	1014.7	1061.1	1066.8
47.5°	893.5	910.6	942.0	988.3	997.6
50°	822.2	837.9	869.3	914.2	928.4
52.5°	748.0	765.1	795.8	837.2	857.8
55°	676.7	688.1	721.6	761.6	783.7
57.5°	602.6	613.3	651.1	685.3	708.1
60°	531.3	544.8	574.0	609.0	635.4
62.5°	462.8	477.1	502.0	532.7	562.6
65°	396.5	407.2	431.4	462.1	488.5
67.5°	332.3	341.6	365.8	387.2	415.0
70°	267.4	279.5	297.4	318.0	335.9
72.5°	215.4	220.3	235.3	250.3	268.8
75°	159.0	167.6	179.7	188.3	199.0
77.5°	114.1	119.1	126.2	133.3	143.3
80°	76.3	78.4	84.9	86.3	94.1
82.5°	46.4	47.8	49.2	49.9	52.8
85°	25.0	25.0	25.0	23.5	23.5
87.5°	14.3	14.3	12.1	10.0	7.1
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)