

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: P556084

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-86-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: P556084
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

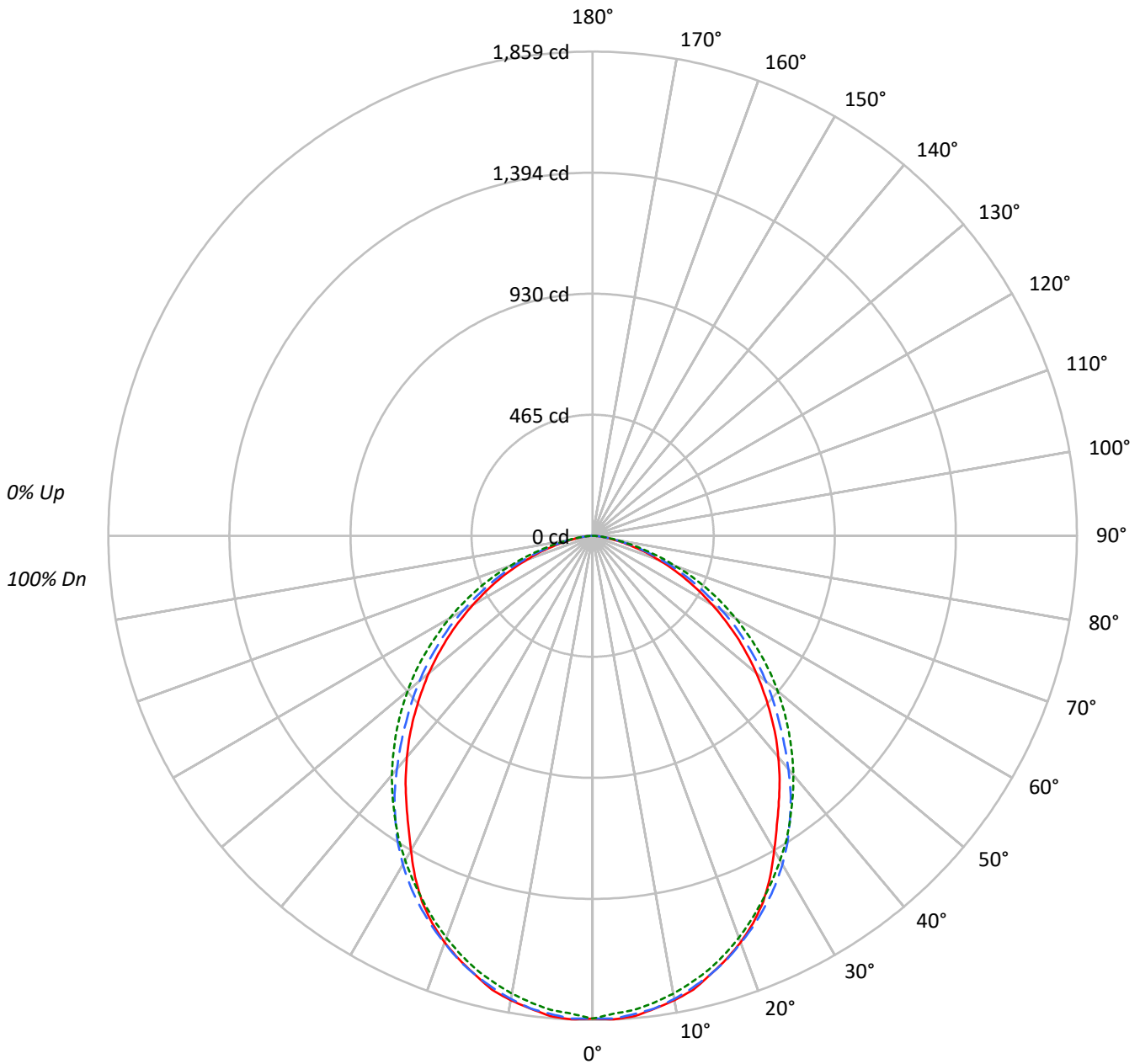
Lumens per Lamp: N/A
Luminaire Lumens: 4285.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): 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-50-UNV-80-86-EDD-90

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°	9976	9976	9976
5°	10002	9960	9875
10°	9897	9869	9756
15°	9721	9721	9610
20°	9515	9527	9405
25°	9201	9315	9168
30°	8665	9054	8943
35°	8188	8679	8693
40°	7789	8209	8425
45°	7344	7712	8108
50°	6874	7268	7762
55°	6341	6762	7343
60°	5710	6170	6830
65°	5042	5486	6212
70°	4201	4672	5278
75°	3302	3730	4132
80°	2362	2625	2913
85°	1538	1538	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	4.1
10°-20°	490.3	11.4
20°-30°	716.5	16.7
30°-40°	813.3	19.0
40°-50°	785.1	18.3
50°-60°	647.6	15.1
60°-70°	431.3	10.1
70°-80°	193.0	4.5
80°-90°	34.5	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°	1381.3	32.2
0°-40°	2194.5	51.2
0°-60°	3627.2	84.6
0°-90°	4285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1851	1851	1844	1834	1828	175
15°	1745	1749	1745	1737	1725	492
25°	1550	1562	1569	1557	1544	710
35°	1246	1263	1321	1328	1323	781
45°	965	981	1013	1060	1065	744
55°	676	687	721	760	783	603
65°	396	407	431	461	488	393
75°	159	167	179	188	199	174
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.6	1853.6	1853.6	1853.6	1853.6
2.5°	1858.6	1859.3	1855.0	1843.6	1836.5
5°	1851.4	1850.7	1843.6	1833.6	1827.9
7.5°	1830.8	1832.2	1830.1	1815.8	1808.0
10°	1810.9	1811.6	1805.9	1794.5	1785.2
12.5°	1785.2	1784.5	1776.7	1771.0	1756.0
15°	1744.6	1748.9	1744.6	1736.8	1724.7
17.5°	1705.5	1705.5	1708.3	1694.8	1685.5
20°	1661.3	1663.5	1663.5	1652.8	1642.1
22.5°	1610.0	1616.5	1618.6	1607.2	1594.4
25°	1549.5	1561.6	1568.7	1557.4	1543.8
27.5°	1476.2	1494.7	1516.1	1507.5	1492.6
30°	1394.3	1421.3	1456.9	1449.8	1439.1
32.5°	1316.7	1343.7	1392.9	1390.0	1384.3
35°	1246.2	1263.3	1320.9	1328.1	1323.1
37.5°	1179.2	1194.9	1249.0	1265.4	1261.1
40°	1108.7	1125.8	1168.5	1197.7	1199.2
42.5°	1038.9	1055.3	1090.2	1132.2	1132.2
45°	964.9	981.3	1013.3	1059.6	1065.3
47.5°	892.3	909.3	940.7	987.0	996.2
50°	821.0	836.7	868.0	912.9	927.1
52.5°	747.0	764.1	794.7	836.0	856.7
55°	675.8	687.2	720.6	760.5	782.6
57.5°	601.7	612.4	650.1	684.3	707.1
60°	530.5	544.0	573.2	608.1	634.5
62.5°	462.1	476.4	501.3	531.9	561.8
65°	395.9	406.6	430.8	461.4	487.8
67.5°	331.8	341.1	365.3	386.7	414.4
70°	267.0	279.1	296.9	317.6	335.4
72.5°	215.1	220.0	235.0	249.9	268.5
75°	158.8	167.3	179.4	188.0	198.7
77.5°	113.9	118.9	126.0	133.2	143.1
80°	76.2	78.3	84.7	86.2	94.0
82.5°	46.3	47.7	49.1	49.8	52.7
85°	24.9	24.9	24.9	23.5	23.5
87.5°	14.2	14.2	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)