

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: P555945

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-88-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: P555945
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

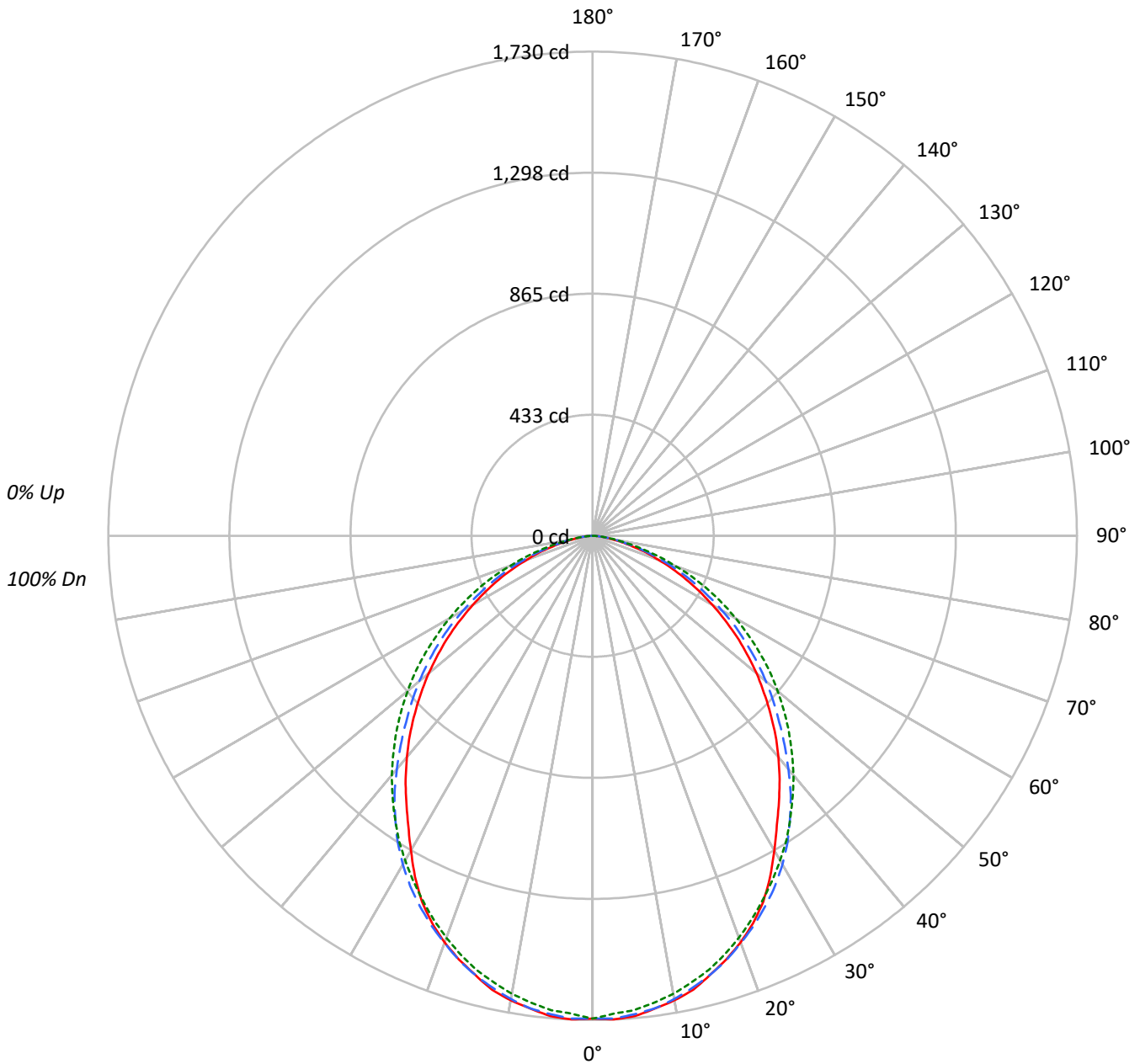
Lumens per Lamp: N/A
Luminaire Lumens: 3989.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	9284	9284	9284
5°	9310	9270	9191
10°	9211	9185	9080
15°	9047	9047	8944
20°	8856	8867	8753
25°	8564	8670	8532
30°	8065	8427	8324
35°	7620	8077	8090
40°	7250	7641	7841
45°	6835	7178	7547
50°	6399	6764	7225
55°	5902	6293	6835
60°	5314	5743	6356
65°	4693	5107	5782
70°	3910	4349	4913
75°	3073	3473	3845
80°	2197	2445	2712
85°	1433	1433	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	4.1
10°-20°	456.3	11.4
20°-30°	666.8	16.7
30°-40°	756.9	19.0
40°-50°	730.7	18.3
50°-60°	602.8	15.1
60°-70°	401.4	10.1
70°-80°	179.6	4.5
80°-90°	32.1	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°	1285.5	32.2
0°-40°	2042.4	51.2
0°-60°	3375.9	84.6
0°-90°	3989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1723	1722	1716	1707	1701	163
15°	1624	1628	1624	1616	1605	458
25°	1442	1453	1460	1449	1437	660
35°	1160	1176	1229	1236	1231	727
45°	898	913	943	986	992	693
55°	629	640	671	708	728	561
65°	368	378	401	430	454	365
75°	148	156	167	175	185	162
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1729.8	1730.4	1726.5	1715.9	1709.2
5°	1723.2	1722.5	1715.9	1706.6	1701.3
7.5°	1703.9	1705.3	1703.3	1690.0	1682.7
10°	1685.4	1686.0	1680.7	1670.1	1661.5
12.5°	1661.5	1660.9	1653.6	1648.3	1634.3
15°	1623.7	1627.7	1623.7	1616.4	1605.2
17.5°	1587.3	1587.3	1589.9	1577.3	1568.7
20°	1546.2	1548.2	1548.2	1538.2	1528.3
22.5°	1498.5	1504.4	1506.4	1495.8	1483.9
25°	1442.1	1453.4	1460.0	1449.4	1436.8
27.5°	1373.9	1391.1	1411.0	1403.0	1389.1
30°	1297.7	1322.8	1356.0	1349.4	1339.4
32.5°	1225.4	1250.6	1296.3	1293.7	1288.4
35°	1159.8	1175.7	1229.4	1236.0	1231.4
37.5°	1097.5	1112.1	1162.5	1177.7	1173.7
40°	1031.9	1047.8	1087.6	1114.7	1116.1
42.5°	967.0	982.2	1014.7	1053.8	1053.8
45°	898.0	913.3	943.1	986.2	991.5
47.5°	830.4	846.3	875.5	918.6	927.2
50°	764.2	778.7	807.9	849.6	862.9
52.5°	695.2	711.1	739.6	778.1	797.3
55°	629.0	639.6	670.7	707.8	728.4
57.5°	560.0	570.0	605.1	636.9	658.1
60°	493.7	506.3	533.5	566.0	590.5
62.5°	430.1	443.4	466.6	495.1	522.9
65°	368.5	378.4	401.0	429.5	454.0
67.5°	308.8	317.5	340.0	359.9	385.7
70°	248.5	259.8	276.4	295.6	312.2
72.5°	200.2	204.8	218.7	232.6	249.9
75°	147.8	155.7	167.0	175.0	184.9
77.5°	106.0	110.7	117.3	123.9	133.2
80°	70.9	72.9	78.9	80.2	87.5
82.5°	43.1	44.4	45.7	46.4	49.0
85°	23.2	23.2	23.2	21.9	21.9
87.5°	13.3	13.3	11.3	9.3	6.6
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)