

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: P554669

Luminaire Tested: **FUSL-12-2-LD4-2HI-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: P554669
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-LD4-2HI-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

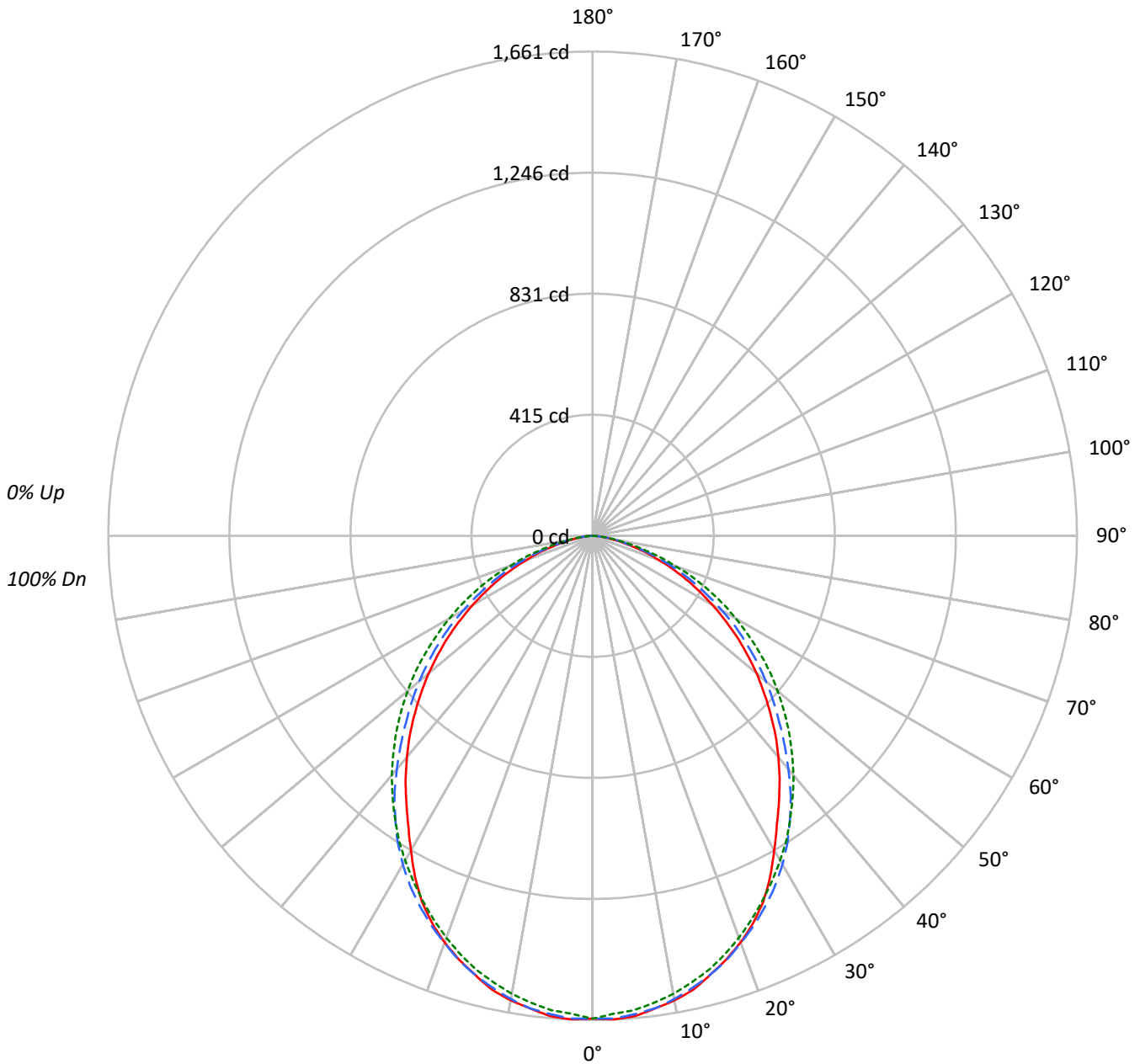
Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8915	8915	8915
5°	8938	8901	8825
10°	8843	8819	8718
15°	8686	8686	8587
20°	8503	8514	8404
25°	8223	8324	8193
30°	7743	8091	7992
35°	7317	7755	7768
40°	6961	7336	7529
45°	6562	6892	7246
50°	6143	6495	6937
55°	5666	6043	6562
60°	5103	5513	6103
65°	4506	4903	5551
70°	3755	4176	4716
75°	2951	3335	3691
80°	2111	2346	2603
85°	1377	1377	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.1
10°-20°	438.1	11.4
20°-30°	640.2	16.7
30°-40°	726.7	19.0
40°-50°	701.5	18.3
50°-60°	578.7	15.1
60°-70°	385.4	10.1
70°-80°	172.5	4.5
80°-90°	30.8	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°	1234.3	32.2
0°-40°	1961.0	51.2
0°-60°	3241.3	84.6
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1654	1654	1648	1639	1634	157
15°	1559	1563	1559	1552	1541	439
25°	1385	1396	1402	1392	1380	634
35°	1114	1129	1180	1187	1182	698
45°	862	877	906	947	952	665
55°	604	614	644	680	699	539
65°	354	363	385	412	436	351
75°	142	150	160	168	178	155
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.4	1656.4	1656.4	1656.4	1656.4
2.5°	1660.8	1661.5	1657.6	1647.5	1641.1
5°	1654.5	1653.8	1647.5	1638.6	1633.5
7.5°	1636.0	1637.3	1635.4	1622.7	1615.7
10°	1618.2	1618.8	1613.7	1603.6	1595.3
12.5°	1595.3	1594.7	1587.7	1582.6	1569.2
15°	1559.0	1562.8	1559.0	1552.0	1541.2
17.5°	1524.0	1524.0	1526.6	1514.5	1506.2
20°	1484.6	1486.5	1486.5	1476.9	1467.4
22.5°	1438.8	1444.5	1446.4	1436.2	1424.8
25°	1384.7	1395.5	1401.8	1391.7	1379.6
27.5°	1319.1	1335.7	1354.8	1347.1	1333.8
30°	1245.9	1270.1	1301.9	1295.6	1286.0
32.5°	1176.6	1200.8	1244.7	1242.1	1237.0
35°	1113.6	1128.9	1180.4	1186.8	1182.3
37.5°	1053.8	1067.8	1116.1	1130.8	1126.9
40°	990.8	1006.0	1044.2	1070.3	1071.6
42.5°	928.4	943.0	974.2	1011.8	1011.8
45°	862.2	876.9	905.5	946.9	952.0
47.5°	797.3	812.6	840.6	882.0	890.2
50°	733.7	747.7	775.7	815.8	828.5
52.5°	667.5	682.8	710.1	747.1	765.5
55°	603.9	614.1	644.0	679.6	699.3
57.5°	537.7	547.2	581.0	611.5	631.9
60°	474.1	486.2	512.2	543.4	567.0
62.5°	413.0	425.7	448.0	475.3	502.1
65°	353.8	363.3	385.0	412.3	435.9
67.5°	296.5	304.8	326.4	345.5	370.3
70°	238.6	249.4	265.4	283.8	299.7
72.5°	192.2	196.6	210.0	223.4	239.9
75°	141.9	149.5	160.4	168.0	177.5
77.5°	101.8	106.3	112.6	119.0	127.9
80°	68.1	70.0	75.7	77.0	84.0
82.5°	41.4	42.6	43.9	44.5	47.1
85°	22.3	22.3	22.3	21.0	21.0
87.5°	12.7	12.7	10.8	8.9	6.4
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)