

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: P555938

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-85-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: P555938
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

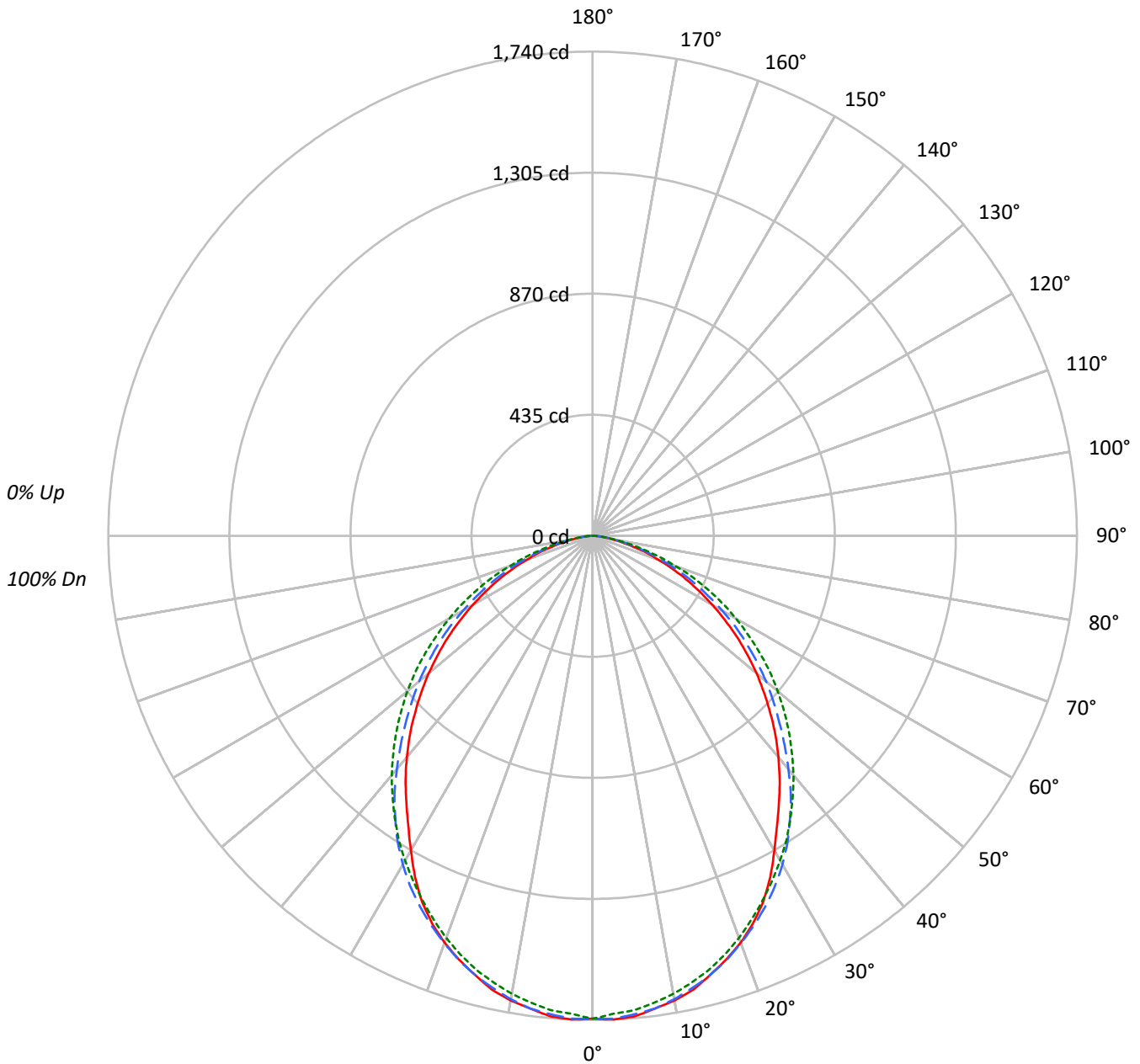
Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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			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°	9340	9340	9340
5°	9365	9326	9246
10°	9266	9240	9135
15°	9102	9102	8997
20°	8909	8920	8806
25°	8615	8722	8584
30°	8113	8477	8374
35°	7666	8126	8139
40°	7293	7687	7888
45°	6876	7222	7591
50°	6436	6805	7268
55°	5937	6331	6875
60°	5346	5777	6395
65°	4721	5137	5816
70°	3934	4375	4941
75°	3092	3493	3868
80°	2210	2458	2727
85°	1439	1439	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	4.1
10°-20°	459.0	11.4
20°-30°	670.8	16.7
30°-40°	761.5	19.0
40°-50°	735.1	18.3
50°-60°	606.4	15.1
60°-70°	403.8	10.1
70°-80°	180.7	4.5
80°-90°	32.3	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°	1293.3	32.2
0°-40°	2054.7	51.2
0°-60°	3396.2	84.6
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1734	1733	1726	1717	1712	164
15°	1634	1638	1634	1626	1615	460
25°	1451	1462	1469	1458	1446	664
35°	1167	1183	1237	1244	1239	731
45°	903	919	949	992	997	697
55°	633	643	675	712	733	565
65°	371	381	403	432	457	368
75°	149	157	168	176	186	163
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°	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1740.2	1740.9	1736.9	1726.2	1719.5
5°	1733.5	1732.9	1726.2	1716.9	1711.5
7.5°	1714.2	1715.5	1713.5	1700.2	1692.8
10°	1695.5	1696.2	1690.8	1680.2	1671.5
12.5°	1671.5	1670.8	1663.5	1658.2	1644.2
15°	1633.5	1637.5	1633.5	1626.2	1614.8
17.5°	1596.8	1596.8	1599.5	1586.8	1578.2
20°	1555.5	1557.5	1557.5	1547.5	1537.5
22.5°	1507.5	1513.5	1515.5	1504.8	1492.8
25°	1450.8	1462.2	1468.8	1458.2	1445.5
27.5°	1382.1	1399.5	1419.5	1411.5	1397.5
30°	1305.5	1330.8	1364.1	1357.5	1347.5
32.5°	1232.8	1258.1	1304.1	1301.5	1296.1
35°	1166.8	1182.8	1236.8	1243.5	1238.8
37.5°	1104.1	1118.8	1169.5	1184.8	1180.8
40°	1038.1	1054.1	1094.1	1121.5	1122.8
42.5°	972.8	988.1	1020.8	1060.1	1060.1
45°	903.4	918.8	948.8	992.1	997.4
47.5°	835.4	851.4	880.8	924.1	932.8
50°	768.7	783.4	812.8	854.8	868.1
52.5°	699.4	715.4	744.1	782.8	802.1
55°	632.7	643.4	674.7	712.1	732.7
57.5°	563.4	573.4	608.7	640.7	662.1
60°	496.7	509.4	536.7	569.4	594.1
62.5°	432.7	446.0	469.4	498.1	526.1
65°	370.7	380.7	403.4	432.0	456.7
67.5°	310.7	319.4	342.0	362.0	388.0
70°	250.0	261.4	278.0	297.4	314.0
72.5°	201.4	206.0	220.0	234.0	251.4
75°	148.7	156.7	168.0	176.0	186.0
77.5°	106.7	111.3	118.0	124.7	134.0
80°	71.3	73.3	79.3	80.7	88.0
82.5°	43.3	44.7	46.0	46.7	49.3
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	6.7
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)