

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: P554815

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-97-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: P554815
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-50-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

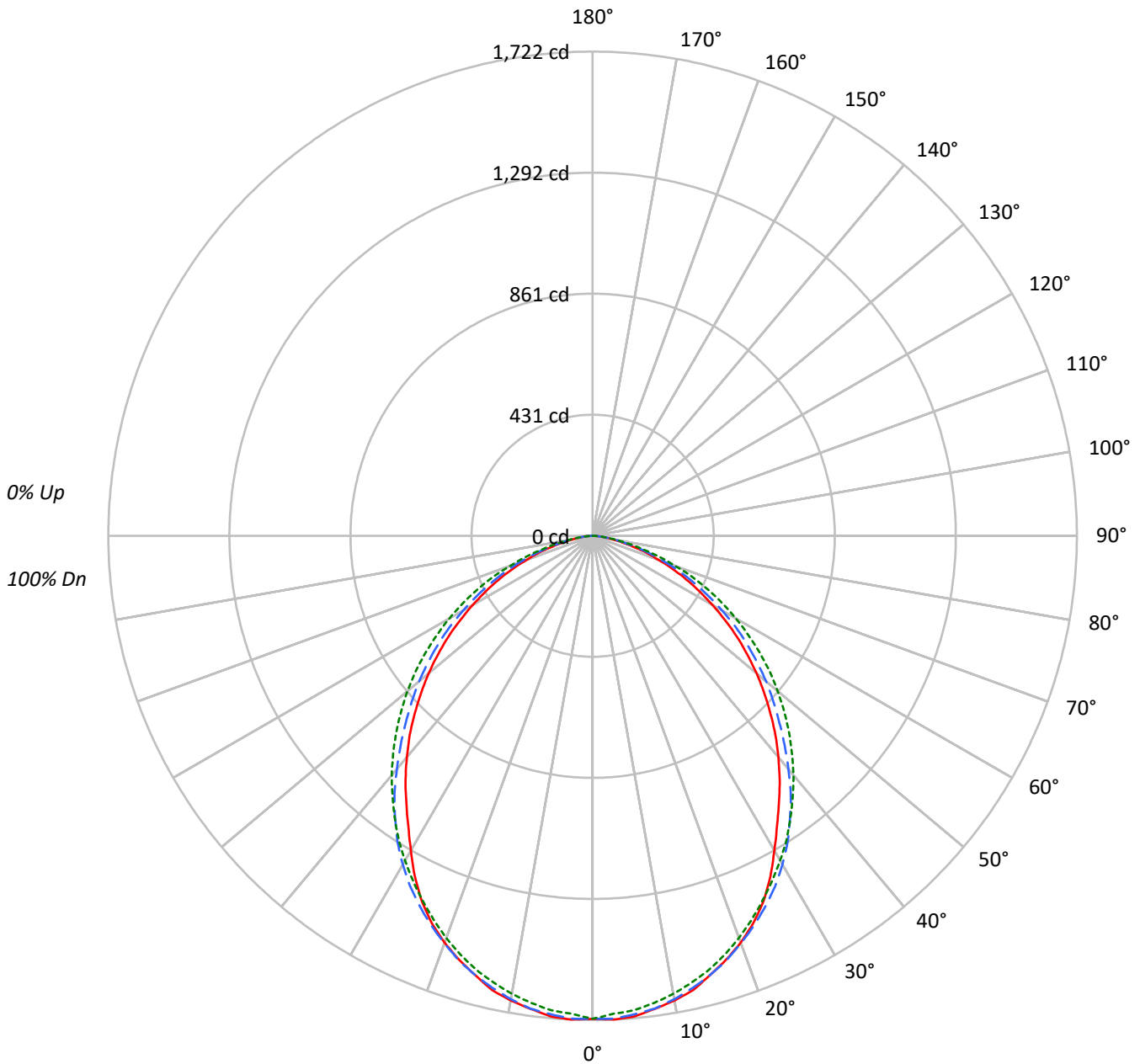
Lumens per Lamp: N/A
Luminaire Lumens: 3972.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9245	9245	9245
5°	9270	9230	9152
10°	9171	9146	9041
15°	9009	9009	8905
20°	8818	8829	8716
25°	8527	8633	8496
30°	8030	8391	8288
35°	7588	8043	8056
40°	7219	7608	7808
45°	6806	7148	7514
50°	6371	6735	7194
55°	5877	6266	6806
60°	5292	5718	6329
65°	4672	5085	5756
70°	3895	4330	4891
75°	3061	3458	3828
80°	2188	2433	2700
85°	1426	1426	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	4.1
10°-20°	454.4	11.4
20°-30°	664.0	16.7
30°-40°	753.7	19.0
40°-50°	727.6	18.3
50°-60°	600.2	15.1
60°-70°	399.7	10.1
70°-80°	178.8	4.5
80°-90°	32.0	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°	1280.1	32.2
0°-40°	2033.7	51.2
0°-60°	3361.5	84.6
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1716	1715	1708	1699	1694	162
15°	1617	1621	1617	1610	1598	456
25°	1436	1447	1454	1443	1431	658
35°	1155	1171	1224	1231	1226	724
45°	894	909	939	982	987	690
55°	626	637	668	705	725	559
65°	367	377	399	428	452	364
75°	147	155	166	174	184	161
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°	1717.8	1717.8	1717.8	1717.8	1717.8
2.5°	1722.4	1723.1	1719.1	1708.5	1701.9
5°	1715.8	1715.1	1708.5	1699.3	1694.0
7.5°	1696.7	1698.0	1696.0	1682.8	1675.6
10°	1678.2	1678.9	1673.6	1663.0	1654.4
12.5°	1654.4	1653.8	1646.5	1641.2	1627.4
15°	1616.8	1620.8	1616.8	1609.6	1598.3
17.5°	1580.5	1580.5	1583.2	1570.6	1562.0
20°	1539.6	1541.6	1541.6	1531.7	1521.8
22.5°	1492.1	1498.0	1500.0	1489.5	1477.6
25°	1436.0	1447.2	1453.8	1443.3	1430.7
27.5°	1368.0	1385.2	1405.0	1397.1	1383.2
30°	1292.1	1317.2	1350.2	1343.6	1333.7
32.5°	1220.2	1245.3	1290.8	1288.2	1282.9
35°	1154.9	1170.7	1224.2	1230.8	1226.1
37.5°	1092.8	1107.4	1157.5	1172.7	1168.7
40°	1027.5	1043.3	1082.9	1110.0	1111.3
42.5°	962.8	978.0	1010.3	1049.3	1049.3
45°	894.2	909.4	939.1	982.0	987.2
47.5°	826.9	842.7	871.8	914.7	923.2
50°	760.9	775.4	804.4	846.0	859.2
52.5°	692.3	708.1	736.5	774.8	793.9
55°	626.3	636.8	667.8	704.8	725.3
57.5°	557.6	567.5	602.5	634.2	655.3
60°	491.6	504.2	531.2	563.6	588.0
62.5°	428.3	441.5	464.6	493.0	520.7
65°	366.9	376.8	399.3	427.6	452.0
67.5°	307.5	316.1	338.5	358.3	384.1
70°	247.5	258.7	275.2	294.3	310.8
72.5°	199.3	203.9	217.8	231.6	248.8
75°	147.2	155.1	166.3	174.2	184.1
77.5°	105.6	110.2	116.8	123.4	132.6
80°	70.6	72.6	78.5	79.9	87.1
82.5°	42.9	44.2	45.5	46.2	48.8
85°	23.1	23.1	23.1	21.8	21.8
87.5°	13.2	13.2	11.2	9.2	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)