

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: P554779

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-94-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: P554779
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-40-UNV-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

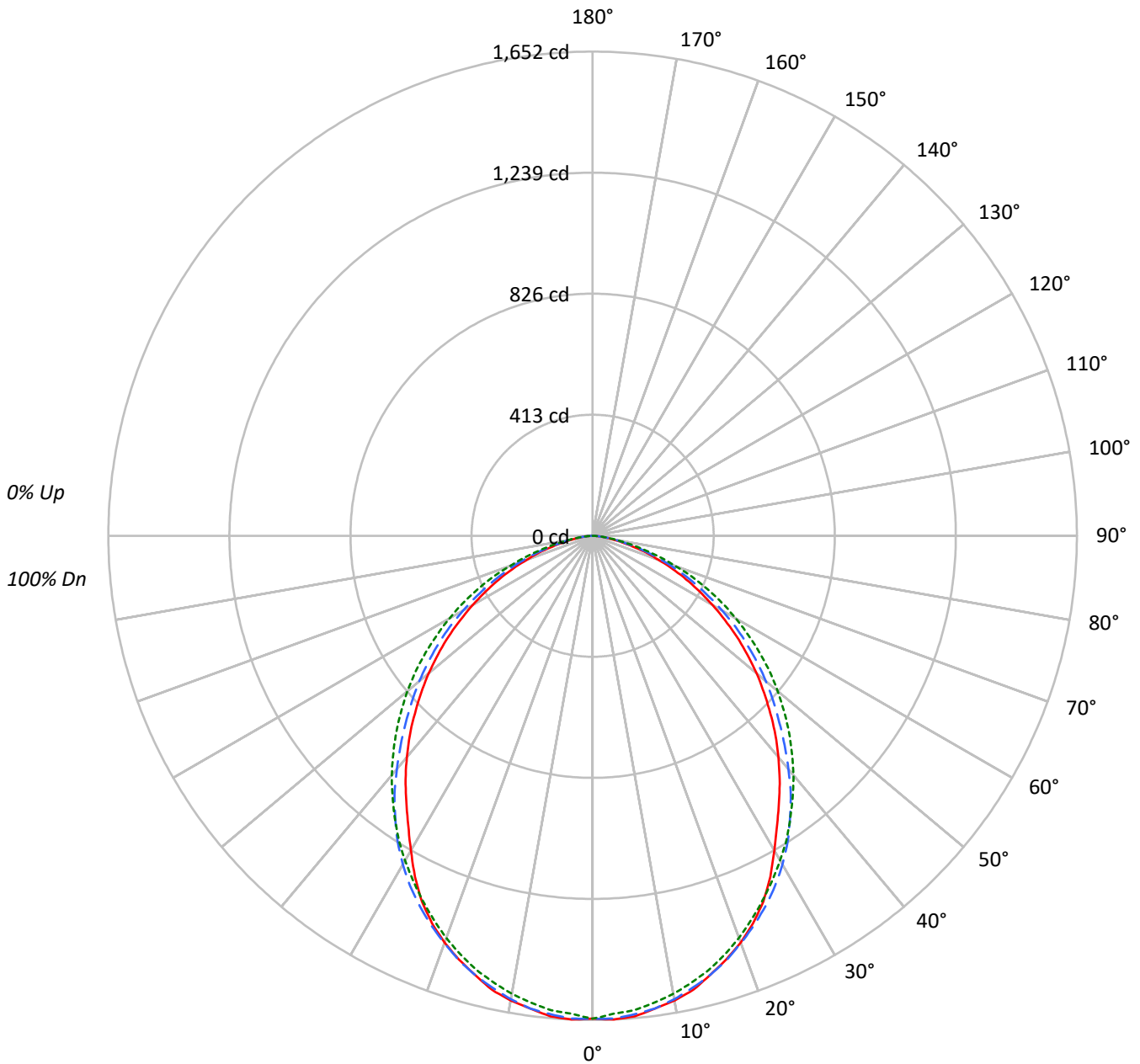
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8868	8868	8868
5°	8891	8854	8779
10°	8797	8773	8673
15°	8641	8641	8543
20°	8458	8469	8360
25°	8179	8281	8150
30°	7702	8048	7950
35°	7278	7715	7727
40°	6924	7298	7489
45°	6528	6856	7208
50°	6111	6460	6901
55°	5636	6011	6528
60°	5076	5485	6071
65°	4483	4877	5522
70°	3736	4154	4691
75°	2936	3317	3672
80°	2098	2334	2591
85°	1371	1371	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	4.1
10°-20°	435.8	11.4
20°-30°	636.9	16.7
30°-40°	722.9	19.0
40°-50°	697.9	18.3
50°-60°	575.7	15.1
60°-70°	383.4	10.1
70°-80°	171.6	4.5
80°-90°	30.7	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°	1227.9	32.2
0°-40°	1950.8	51.2
0°-60°	3224.4	84.6
0°-90°	3810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1646	1645	1639	1630	1625	156
15°	1551	1555	1551	1544	1533	437
25°	1377	1388	1394	1384	1372	631
35°	1108	1123	1174	1181	1176	694
45°	858	872	901	942	947	662
55°	601	611	641	676	696	536
65°	352	361	383	410	434	349
75°	141	149	160	167	177	154
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°	1647.7	1647.7	1647.7	1647.7	1647.7
2.5°	1652.2	1652.8	1649.0	1638.9	1632.5
5°	1645.8	1645.2	1638.9	1630.0	1624.9
7.5°	1627.5	1628.7	1626.8	1614.2	1607.2
10°	1609.7	1610.4	1605.3	1595.2	1587.0
12.5°	1587.0	1586.3	1579.4	1574.3	1561.0
15°	1550.9	1554.7	1550.9	1543.9	1533.2
17.5°	1516.1	1516.1	1518.6	1506.6	1498.3
20°	1476.8	1478.7	1478.7	1469.2	1459.7
22.5°	1431.2	1436.9	1438.8	1428.7	1417.3
25°	1377.4	1388.2	1394.5	1384.4	1372.4
27.5°	1312.2	1328.7	1347.7	1340.1	1326.8
30°	1239.4	1263.5	1295.1	1288.8	1279.3
32.5°	1170.4	1194.5	1238.2	1235.6	1230.6
35°	1107.8	1123.0	1174.2	1180.6	1176.1
37.5°	1048.3	1062.2	1110.3	1124.9	1121.1
40°	985.6	1000.8	1038.8	1064.7	1066.0
42.5°	923.6	938.1	969.1	1006.5	1006.5
45°	857.7	872.3	900.8	941.9	947.0
47.5°	793.2	808.4	836.2	877.4	885.6
50°	729.9	743.8	771.6	811.5	824.2
52.5°	664.0	679.2	706.4	743.2	761.5
55°	600.7	610.9	640.6	676.1	695.7
57.5°	534.9	544.4	577.9	608.3	628.6
60°	471.6	483.6	509.6	540.6	564.0
62.5°	410.8	423.5	445.6	472.9	499.4
65°	352.0	361.4	383.0	410.2	433.6
67.5°	295.0	303.2	324.7	343.7	368.4
70°	237.4	248.1	264.0	282.3	298.1
72.5°	191.2	195.6	208.9	222.2	238.6
75°	141.2	148.8	159.5	167.1	176.6
77.5°	101.3	105.7	112.0	118.4	127.2
80°	67.7	69.6	75.3	76.6	83.6
82.5°	41.1	42.4	43.7	44.3	46.8
85°	22.2	22.2	22.2	20.9	20.9
87.5°	12.7	12.7	10.8	8.9	6.3
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)