

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: P554735

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-97-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: P554735
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-35-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

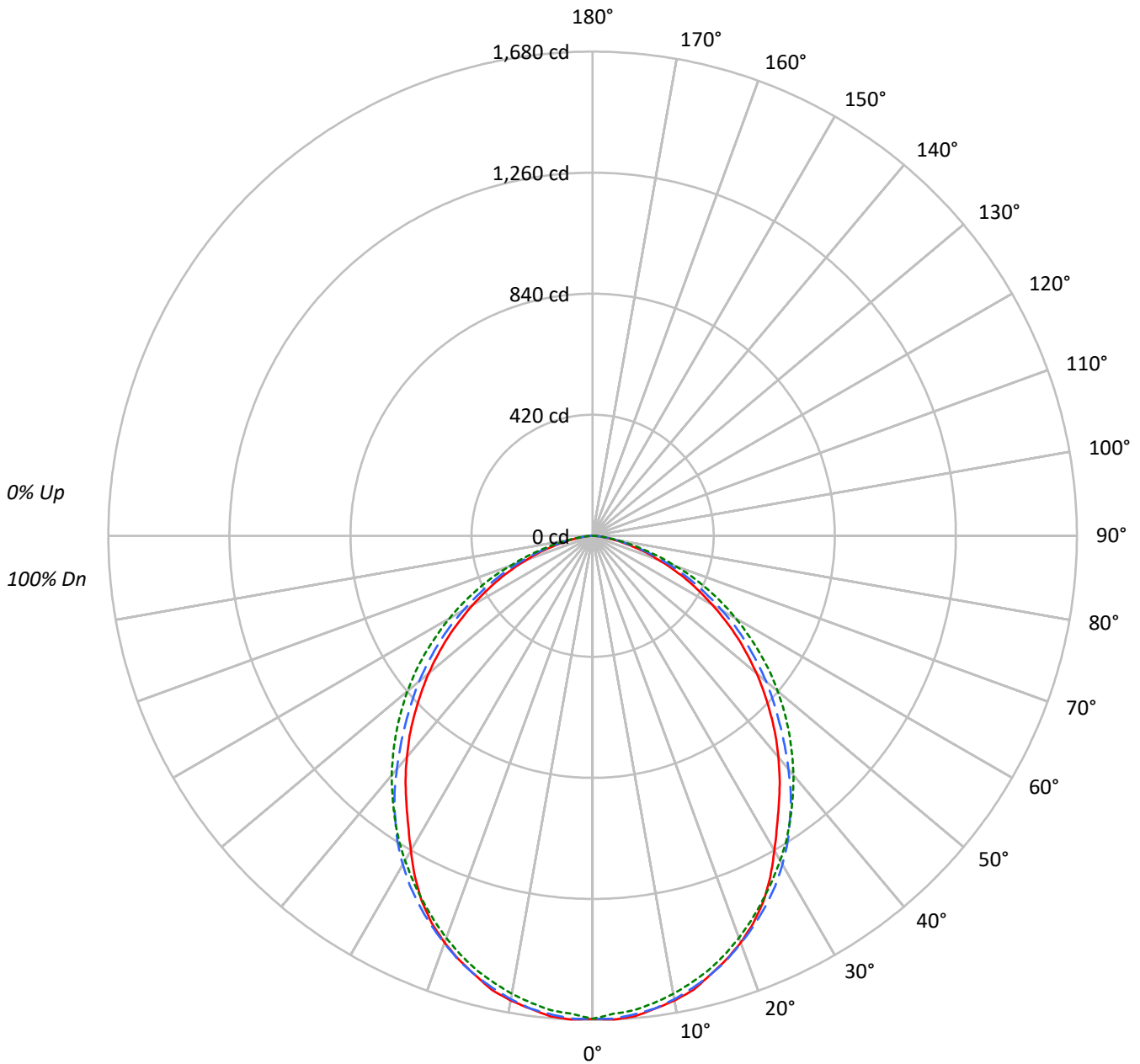
Lumens per Lamp: N/A
Luminaire Lumens: 3875.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9019	9019	9019
5°	9043	9005	8929
10°	8947	8923	8820
15°	8788	8788	8688
20°	8602	8613	8503
25°	8319	8422	8289
30°	7834	8186	8086
35°	7403	7847	7859
40°	7043	7423	7617
45°	6640	6973	7330
50°	6215	6571	7018
55°	5733	6113	6639
60°	5162	5579	6174
65°	4559	4960	5616
70°	3799	4225	4771
75°	2986	3373	3735
80°	2135	2374	2634
85°	1389	1389	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	4.1
10°-20°	443.3	11.4
20°-30°	647.8	16.7
30°-40°	735.3	19.0
40°-50°	709.8	18.3
50°-60°	585.5	15.1
60°-70°	389.9	10.1
70°-80°	174.5	4.5
80°-90°	31.2	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°	1248.8	32.2
0°-40°	1984.1	51.2
0°-60°	3279.4	84.6
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1674	1673	1667	1658	1653	158
15°	1577	1581	1577	1570	1559	445
25°	1401	1412	1418	1408	1396	642
35°	1127	1142	1194	1201	1196	706
45°	872	887	916	958	963	673
55°	611	621	652	688	708	545
65°	358	368	390	417	441	355
75°	144	151	162	170	180	157
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°	1675.8	1675.8	1675.8	1675.8	1675.8
2.5°	1680.3	1681.0	1677.1	1666.8	1660.4
5°	1673.9	1673.3	1666.8	1657.8	1652.7
7.5°	1655.2	1656.5	1654.6	1641.7	1634.6
10°	1637.2	1637.9	1632.7	1622.4	1614.0
12.5°	1614.0	1613.4	1606.3	1601.2	1587.6
15°	1577.3	1581.2	1577.3	1570.3	1559.3
17.5°	1541.9	1541.9	1544.5	1532.3	1523.9
20°	1502.0	1503.9	1503.9	1494.3	1484.6
22.5°	1455.7	1461.4	1463.4	1453.1	1441.5
25°	1400.9	1411.9	1418.3	1408.0	1395.8
27.5°	1334.6	1351.4	1370.7	1362.9	1349.4
30°	1260.6	1285.0	1317.2	1310.8	1301.1
32.5°	1190.4	1214.9	1259.3	1256.7	1251.6
35°	1126.7	1142.1	1194.3	1200.7	1196.2
37.5°	1066.1	1080.3	1129.2	1144.1	1140.2
40°	1002.4	1017.9	1056.5	1082.9	1084.2
42.5°	939.3	954.1	985.7	1023.7	1023.7
45°	872.4	887.2	916.1	958.0	963.1
47.5°	806.7	822.1	850.5	892.3	900.7
50°	742.3	756.5	784.8	825.4	838.2
52.5°	675.4	690.8	718.5	755.8	774.5
55°	611.0	621.3	651.5	687.6	707.5
57.5°	544.0	553.7	587.8	618.7	639.3
60°	479.6	491.9	518.3	549.8	573.6
62.5°	417.8	430.7	453.2	480.9	508.0
65°	358.0	367.6	389.5	417.2	441.0
67.5°	300.0	308.4	330.3	349.6	374.7
70°	241.4	252.4	268.5	287.1	303.2
72.5°	194.4	198.9	212.5	226.0	242.7
75°	143.6	151.3	162.2	170.0	179.6
77.5°	103.0	107.5	114.0	120.4	129.4
80°	68.9	70.8	76.6	77.9	85.0
82.5°	41.8	43.1	44.4	45.1	47.6
85°	22.5	22.5	22.5	21.2	21.2
87.5°	12.9	12.9	10.9	9.0	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)