

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: P555759

Luminaire Tested: **FUSL-12-2-LD4-3LO-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: P555759
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-LD4-3LO-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

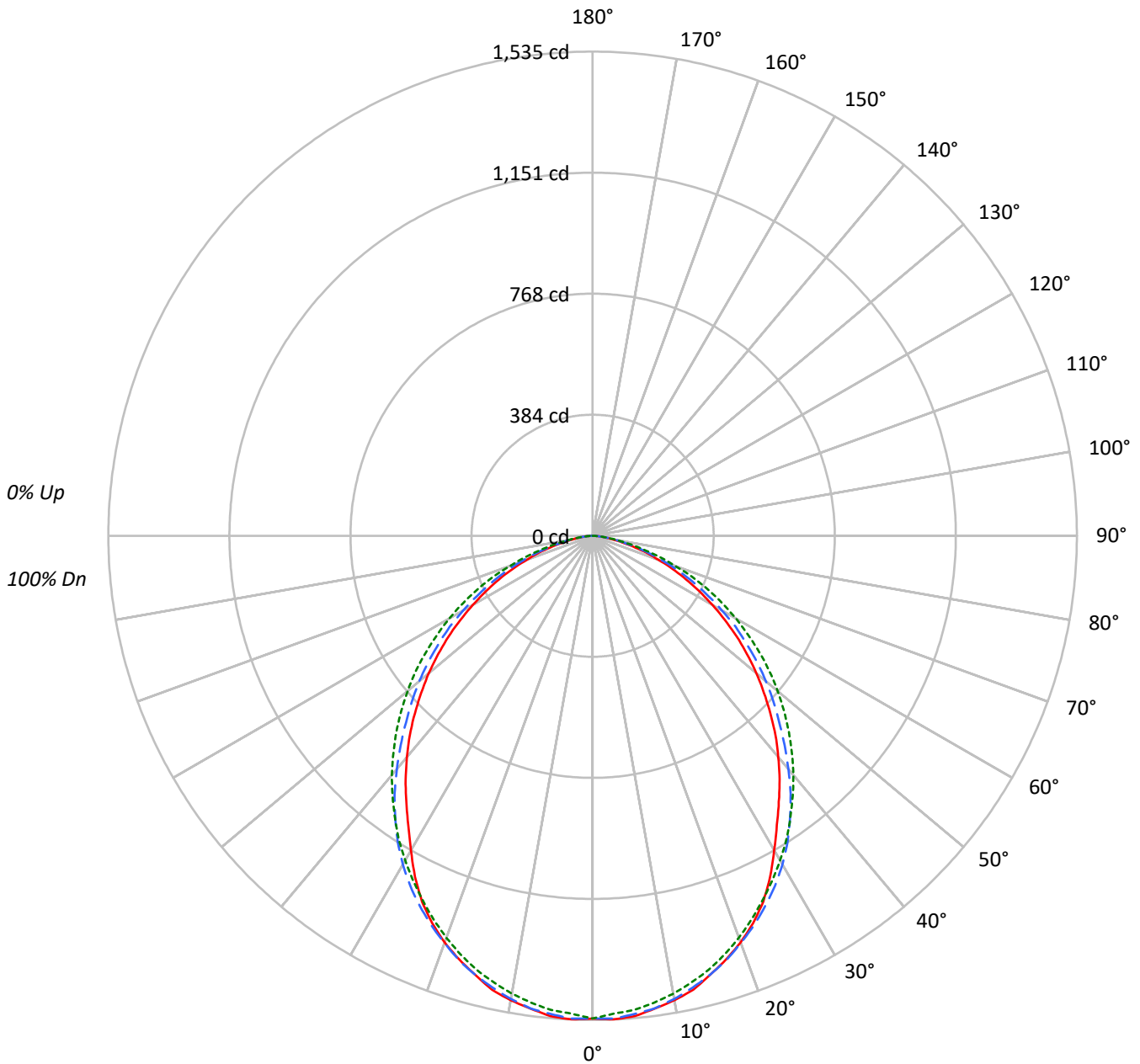
Lumens per Lamp: N/A
Luminaire Lumens: 3539.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8237	8237	8237
5°	8259	8224	8155
10°	8171	8149	8056
15°	8027	8027	7935
20°	7857	7867	7766
25°	7598	7692	7570
30°	7155	7476	7385
35°	6761	7166	7178
40°	6432	6779	6957
45°	6064	6368	6695
50°	5676	6002	6410
55°	5236	5583	6063
60°	4715	5095	5639
65°	4163	4530	5130
70°	3470	3858	4357
75°	2726	3082	3410
80°	1949	2170	2405
85°	1272	1272	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.1
10°-20°	404.8	11.4
20°-30°	591.6	16.7
30°-40°	671.5	19.0
40°-50°	648.2	18.3
50°-60°	534.8	15.1
60°-70°	356.1	10.1
70°-80°	159.4	4.5
80°-90°	28.5	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°	1140.5	32.2
0°-40°	1812.0	51.2
0°-60°	2995.0	84.6
0°-90°	3539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1529	1528	1522	1514	1509	145
15°	1441	1444	1441	1434	1424	406
25°	1280	1290	1295	1286	1275	586
35°	1029	1043	1091	1097	1092	645
45°	797	810	837	875	880	615
55°	558	567	595	628	646	498
65°	327	336	356	381	403	324
75°	131	138	148	155	164	143
85°	21	21	21	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.5	1530.5	1530.5	1530.5	1530.5
2.5°	1534.6	1535.2	1531.7	1522.3	1516.4
5°	1528.8	1528.2	1522.3	1514.1	1509.4
7.5°	1511.7	1512.9	1511.1	1499.4	1492.9
10°	1495.2	1495.8	1491.1	1481.7	1474.1
12.5°	1474.1	1473.5	1467.0	1462.3	1450.0
15°	1440.6	1444.1	1440.6	1434.1	1424.1
17.5°	1408.2	1408.2	1410.6	1399.4	1391.8
20°	1371.8	1373.5	1373.5	1364.7	1355.9
22.5°	1329.4	1334.7	1336.5	1327.1	1316.5
25°	1279.5	1289.5	1295.3	1285.9	1274.8
27.5°	1218.9	1234.2	1251.8	1244.8	1232.4
30°	1151.3	1173.6	1203.0	1197.1	1188.3
32.5°	1087.2	1109.5	1150.1	1147.7	1143.0
35°	1029.0	1043.1	1090.7	1096.6	1092.5
37.5°	973.7	986.6	1031.3	1044.9	1041.3
40°	915.5	929.6	964.9	989.0	990.2
42.5°	857.9	871.4	900.2	934.9	934.9
45°	796.7	810.2	836.7	874.9	879.6
47.5°	736.7	750.9	776.7	814.9	822.6
50°	677.9	690.9	716.8	753.8	765.6
52.5°	616.8	630.9	656.2	690.3	707.3
55°	558.0	567.4	595.0	628.0	646.2
57.5°	496.8	505.7	536.8	565.1	583.9
60°	438.0	449.2	473.3	502.1	523.9
62.5°	381.6	393.4	413.9	439.2	463.9
65°	326.9	335.7	355.7	381.0	402.8
67.5°	274.0	281.6	301.6	319.3	342.2
70°	220.5	230.5	245.2	262.2	276.9
72.5°	177.6	181.7	194.0	206.4	221.7
75°	131.1	138.2	148.2	155.2	164.0
77.5°	94.1	98.2	104.1	110.0	118.2
80°	62.9	64.7	70.0	71.1	77.6
82.5°	38.2	39.4	40.6	41.2	43.5
85°	20.6	20.6	20.6	19.4	19.4
87.5°	11.8	11.8	10.0	8.2	5.9
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)