

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: P555695

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-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: P555695
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

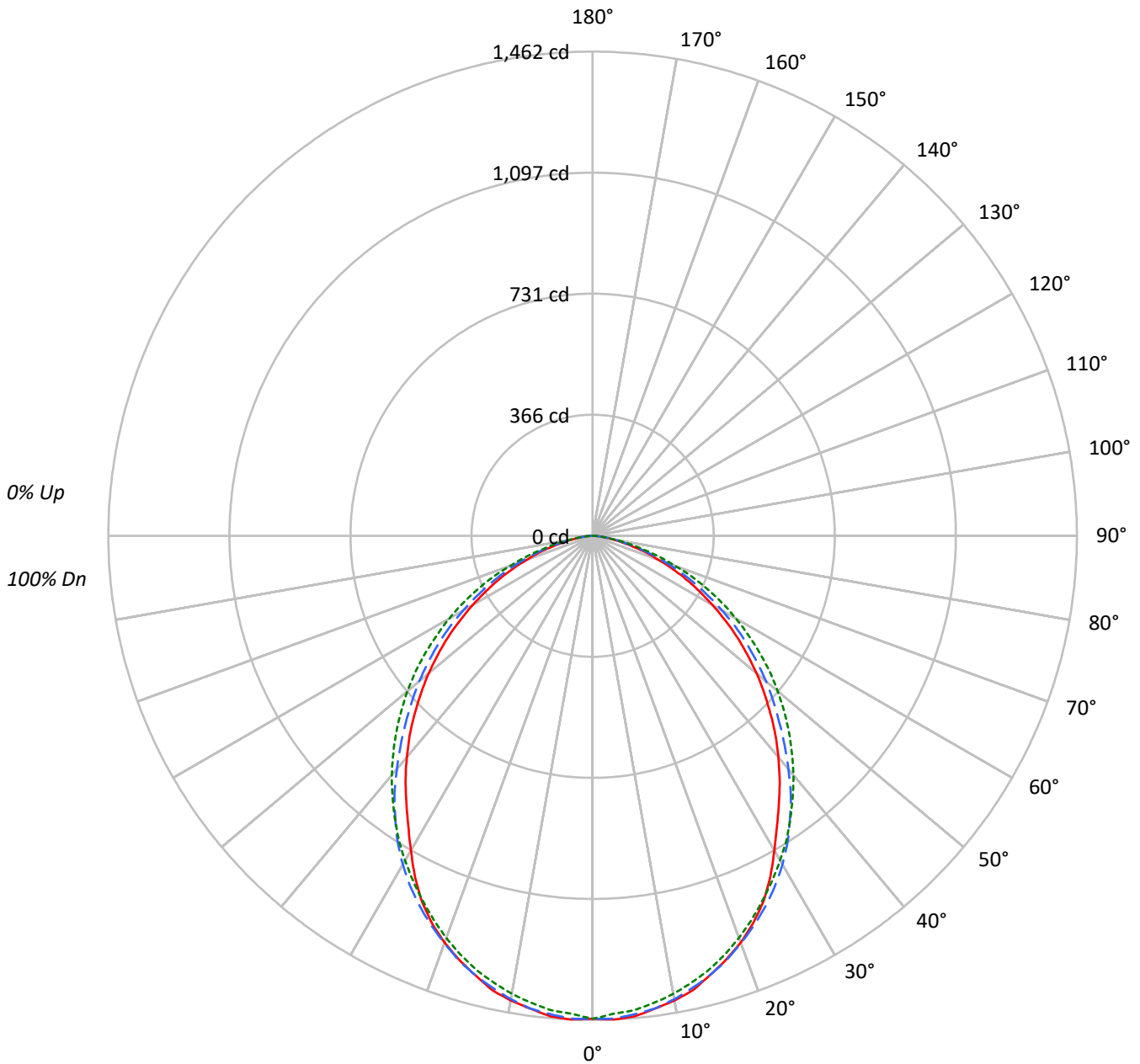
Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7849	7849	7849
5°	7869	7836	7769
10°	7786	7765	7676
15°	7648	7648	7560
20°	7486	7495	7399
25°	7239	7329	7213
30°	6817	7123	7036
35°	6441	6828	6839
40°	6128	6459	6628
45°	5778	6068	6379
50°	5409	5718	6107
55°	4989	5320	5777
60°	4493	4855	5373
65°	3967	4316	4888
70°	3306	3676	4153
75°	2597	2936	3250
80°	1857	2067	2294
85°	1210	1210	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	4.1
10°-20°	385.7	11.4
20°-30°	563.7	16.7
30°-40°	639.8	19.0
40°-50°	617.7	18.3
50°-60°	509.5	15.1
60°-70°	339.3	10.1
70°-80°	151.8	4.5
80°-90°	27.2	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°	1086.7	32.2
0°-40°	1726.5	51.2
0°-60°	2853.7	84.6
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1457	1456	1450	1443	1438	138
15°	1373	1376	1373	1366	1357	387
25°	1219	1229	1234	1225	1215	558
35°	980	994	1039	1045	1041	614
45°	759	772	797	834	838	586
55°	532	541	567	598	616	475
65°	312	320	339	363	384	309
75°	125	132	141	148	156	137
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.3	1458.3	1458.3	1458.3	1458.3
2.5°	1462.2	1462.8	1459.4	1450.5	1444.9
5°	1456.6	1456.1	1450.5	1442.6	1438.1
7.5°	1440.4	1441.5	1439.8	1428.6	1422.4
10°	1424.7	1425.2	1420.8	1411.8	1404.5
12.5°	1404.5	1404.0	1397.8	1393.3	1381.6
15°	1372.6	1375.9	1372.6	1366.4	1356.9
17.5°	1341.8	1341.8	1344.0	1333.4	1326.1
20°	1307.0	1308.7	1308.7	1300.3	1291.9
22.5°	1266.7	1271.7	1273.4	1264.5	1254.4
25°	1219.1	1228.6	1234.2	1225.2	1214.6
27.5°	1161.4	1175.9	1192.7	1186.0	1174.3
30°	1096.9	1118.2	1146.2	1140.6	1132.2
32.5°	1035.9	1057.2	1095.8	1093.6	1089.1
35°	980.4	993.9	1039.2	1044.8	1040.9
37.5°	927.8	940.1	982.7	995.5	992.2
40°	872.3	885.7	919.4	942.3	943.4
42.5°	817.4	830.3	857.7	890.8	890.8
45°	759.1	772.0	797.2	833.6	838.1
47.5°	702.0	715.4	740.1	776.5	783.8
50°	646.0	658.3	682.9	718.2	729.4
52.5°	587.7	601.1	625.2	657.7	674.0
55°	531.7	540.6	567.0	598.3	615.7
57.5°	473.4	481.8	511.5	538.4	556.3
60°	417.4	428.0	451.0	478.4	499.2
62.5°	363.6	374.8	394.4	418.5	442.0
65°	311.5	319.9	338.9	363.0	383.8
67.5°	261.1	268.4	287.4	304.2	326.1
70°	210.1	219.6	233.6	249.9	263.9
72.5°	169.2	173.1	184.9	196.6	211.2
75°	124.9	131.7	141.2	147.9	156.3
77.5°	89.6	93.6	99.2	104.8	112.6
80°	59.9	61.6	66.7	67.8	74.0
82.5°	36.4	37.5	38.7	39.2	41.5
85°	19.6	19.6	19.6	18.5	18.5
87.5°	11.2	11.2	9.5	7.8	5.6
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)