

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: P555687

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-87-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: P555687
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

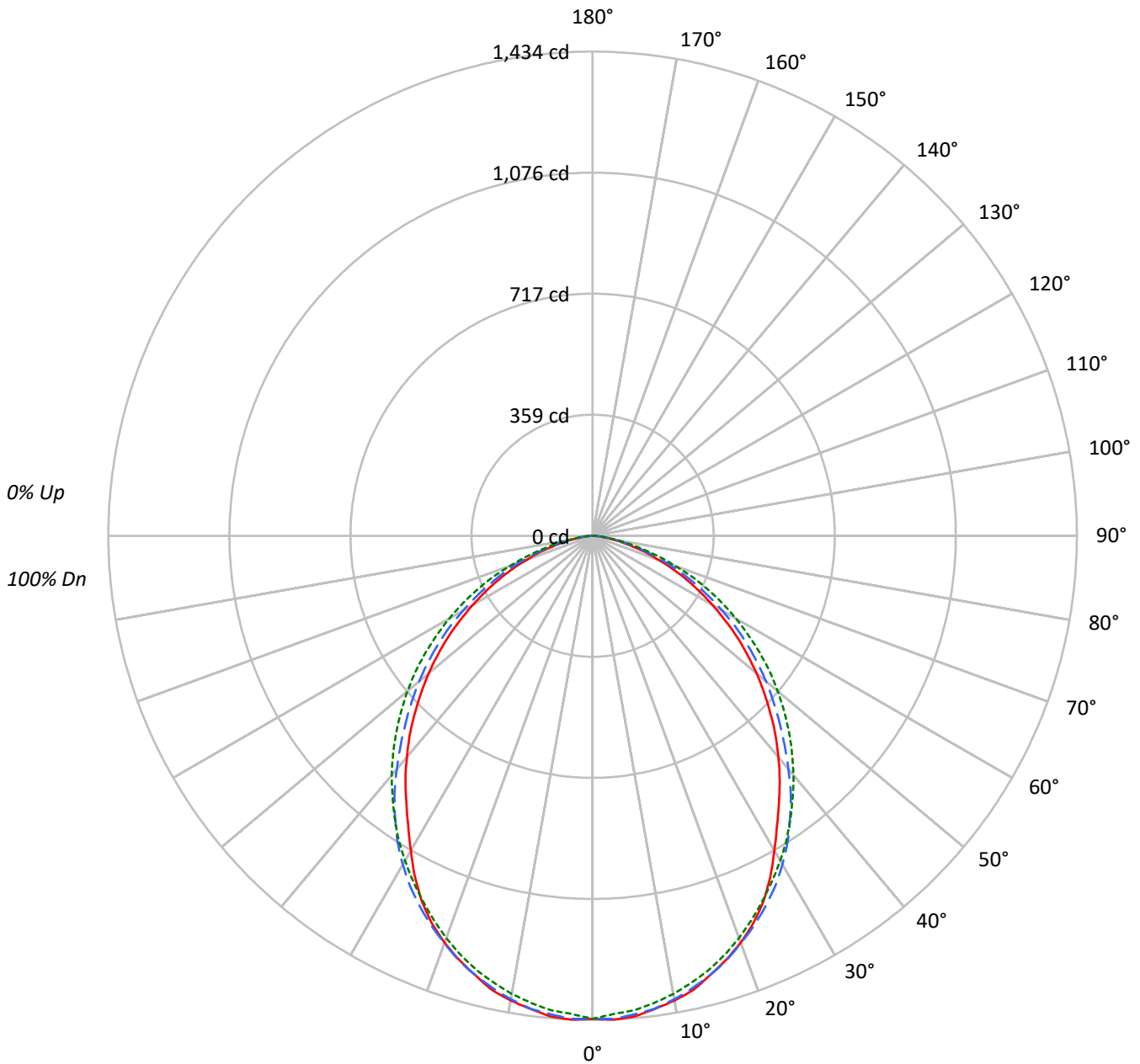
Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7699	7699	7699
5°	7720	7687	7622
10°	7638	7617	7530
15°	7502	7502	7417
20°	7344	7353	7259
25°	7102	7190	7076
30°	6687	6988	6903
35°	6319	6698	6709
40°	6012	6336	6502
45°	5668	5953	6258
50°	5306	5610	5992
55°	4894	5219	5667
60°	4408	4762	5271
65°	3892	4234	4795
70°	3243	3607	4074
75°	2549	2880	3188
80°	1822	2027	2247
85°	1186	1186	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.1
10°-20°	378.4	11.4
20°-30°	553.0	16.7
30°-40°	627.7	19.0
40°-50°	605.9	18.3
50°-60°	499.9	15.1
60°-70°	332.9	10.1
70°-80°	149.0	4.5
80°-90°	26.6	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°	1066.1	32.2
0°-40°	1693.7	51.2
0°-60°	2799.5	84.6
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1429	1428	1423	1415	1411	135
15°	1346	1350	1346	1340	1331	380
25°	1196	1205	1211	1202	1192	548
35°	962	975	1020	1025	1021	603
45°	745	757	782	818	822	575
55°	522	530	556	587	604	466
65°	306	314	332	356	376	303
75°	123	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1434.5	1435.0	1431.7	1422.9	1417.4
5°	1429.0	1428.4	1422.9	1415.2	1410.8
7.5°	1413.0	1414.1	1412.5	1401.5	1395.4
10°	1397.6	1398.2	1393.8	1385.0	1377.9
12.5°	1377.9	1377.3	1371.3	1366.9	1355.3
15°	1346.5	1349.8	1346.5	1340.5	1331.1
17.5°	1316.3	1316.3	1318.5	1308.1	1300.9
20°	1282.2	1283.9	1283.9	1275.6	1267.4
22.5°	1242.7	1247.6	1249.3	1240.5	1230.6
25°	1195.9	1205.3	1210.8	1202.0	1191.5
27.5°	1139.3	1153.6	1170.1	1163.5	1152.0
30°	1076.1	1097.0	1124.5	1119.0	1110.8
32.5°	1016.2	1037.1	1075.0	1072.8	1068.4
35°	961.8	975.0	1019.5	1025.0	1021.2
37.5°	910.1	922.2	964.0	976.6	973.4
40°	855.7	868.9	901.9	924.4	925.5
42.5°	801.9	814.5	841.4	873.9	873.9
45°	744.7	757.4	782.1	817.8	822.2
47.5°	688.7	701.8	726.0	761.8	768.9
50°	633.7	645.8	670.0	704.6	715.6
52.5°	576.5	589.7	613.4	645.2	661.2
55°	521.6	530.4	556.2	587.0	604.0
57.5°	464.4	472.7	501.8	528.2	545.8
60°	409.5	419.9	442.4	469.4	489.7
62.5°	356.7	367.7	386.9	410.6	433.6
65°	305.6	313.8	332.5	356.1	376.5
67.5°	256.1	263.3	281.9	298.4	319.9
70°	206.1	215.4	229.2	245.1	258.9
72.5°	166.0	169.8	181.4	192.9	207.2
75°	122.6	129.2	138.5	145.1	153.3
77.5°	87.9	91.8	97.3	102.8	110.5
80°	58.8	60.5	65.4	66.5	72.5
82.5°	35.7	36.8	37.9	38.5	40.7
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)