

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: P555746

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-85-EDD-90**

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: P555746
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

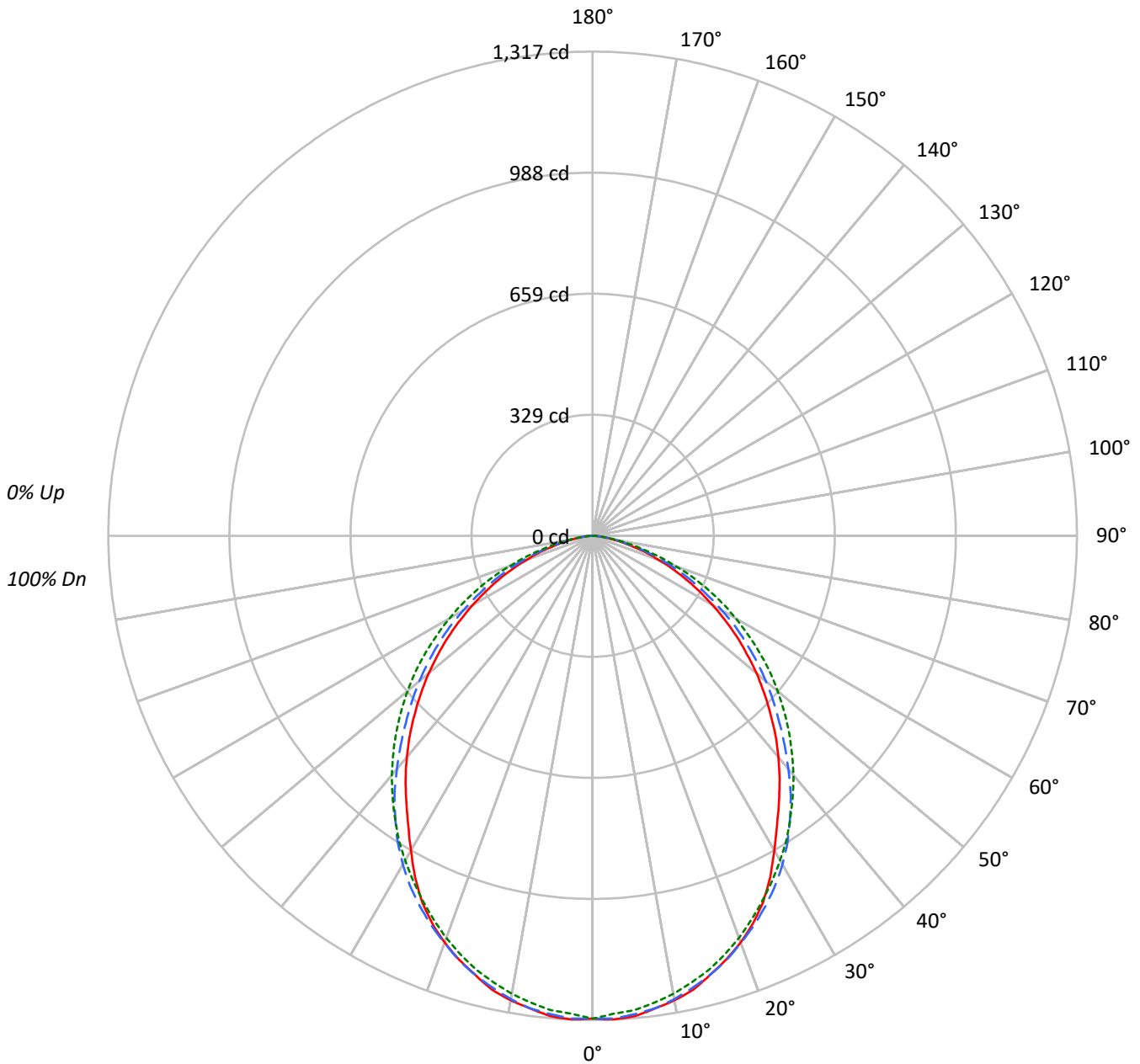
Lumens per Lamp: N/A
Luminaire Lumens: 3037.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555746

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-85-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7069	7069	7069
5°	7088	7058	6998
10°	7012	6993	6913
15°	6888	6888	6809
20°	6742	6751	6664
25°	6520	6601	6496
30°	6140	6416	6338
35°	5801	6150	6160
40°	5519	5817	5970
45°	5204	5465	5746
50°	4871	5150	5501
55°	4493	4791	5203
60°	4046	4372	4839
65°	3572	3888	4401
70°	2977	3311	3740
75°	2339	2645	2928
80°	1674	1860	2064
85°	1093	1093	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.1
10°-20°	347.4	11.4
20°-30°	507.7	16.7
30°-40°	576.3	19.0
40°-50°	556.3	18.3
50°-60°	458.9	15.1
60°-70°	305.6	10.1
70°-80°	136.8	4.5
80°-90°	24.5	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°	978.7	32.2
0°-40°	1555.0	51.2
0°-60°	2570.2	84.6
0°-90°	3037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1312	1311	1306	1299	1295	124
15°	1236	1239	1236	1231	1222	349
25°	1098	1106	1112	1104	1094	503
35°	883	895	936	941	938	553
45°	684	695	718	751	755	528
55°	479	487	511	539	554	427
65°	280	288	305	327	346	278
75°	112	119	127	133	141	123
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.4	1313.4	1313.4	1313.4	1313.4
2.5°	1317.0	1317.5	1314.4	1306.4	1301.3
5°	1311.9	1311.4	1306.4	1299.3	1295.3
7.5°	1297.3	1298.3	1296.8	1286.7	1281.1
10°	1283.1	1283.7	1279.6	1271.5	1265.0
12.5°	1265.0	1264.5	1258.9	1254.9	1244.3
15°	1236.2	1239.3	1236.2	1230.7	1222.1
17.5°	1208.5	1208.5	1210.5	1200.9	1194.3
20°	1177.2	1178.7	1178.7	1171.1	1163.6
22.5°	1140.9	1145.4	1146.9	1138.8	1129.8
25°	1098.0	1106.5	1111.6	1103.5	1093.9
27.5°	1046.0	1059.1	1074.3	1068.2	1057.6
30°	988.0	1007.1	1032.4	1027.3	1019.8
32.5°	933.0	952.1	987.0	984.9	980.9
35°	883.0	895.1	936.0	941.0	937.5
37.5°	835.6	846.7	885.0	896.6	893.6
40°	785.6	797.7	828.0	848.7	849.7
42.5°	736.2	747.8	772.5	802.3	802.3
45°	683.7	695.3	718.0	750.8	754.9
47.5°	632.2	644.3	666.6	699.3	705.9
50°	581.8	592.9	615.1	646.9	657.0
52.5°	529.3	541.4	563.1	592.4	607.0
55°	478.8	486.9	510.6	538.9	554.5
57.5°	426.4	433.9	460.7	484.9	501.0
60°	375.9	385.5	406.2	430.9	449.6
62.5°	327.5	337.6	355.2	376.9	398.1
65°	280.5	288.1	305.3	327.0	345.6
67.5°	235.1	241.7	258.8	274.0	293.7
70°	189.2	197.8	210.4	225.0	237.7
72.5°	152.4	155.9	166.5	177.1	190.2
75°	112.5	118.6	127.2	133.2	140.8
77.5°	80.7	84.3	89.3	94.4	101.4
80°	54.0	55.5	60.0	61.1	66.6
82.5°	32.8	33.8	34.8	35.3	37.3
85°	17.7	17.7	17.7	16.7	16.7
87.5°	10.1	10.1	8.6	7.1	5.0
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)