

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: P555756

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-96-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: P555756
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

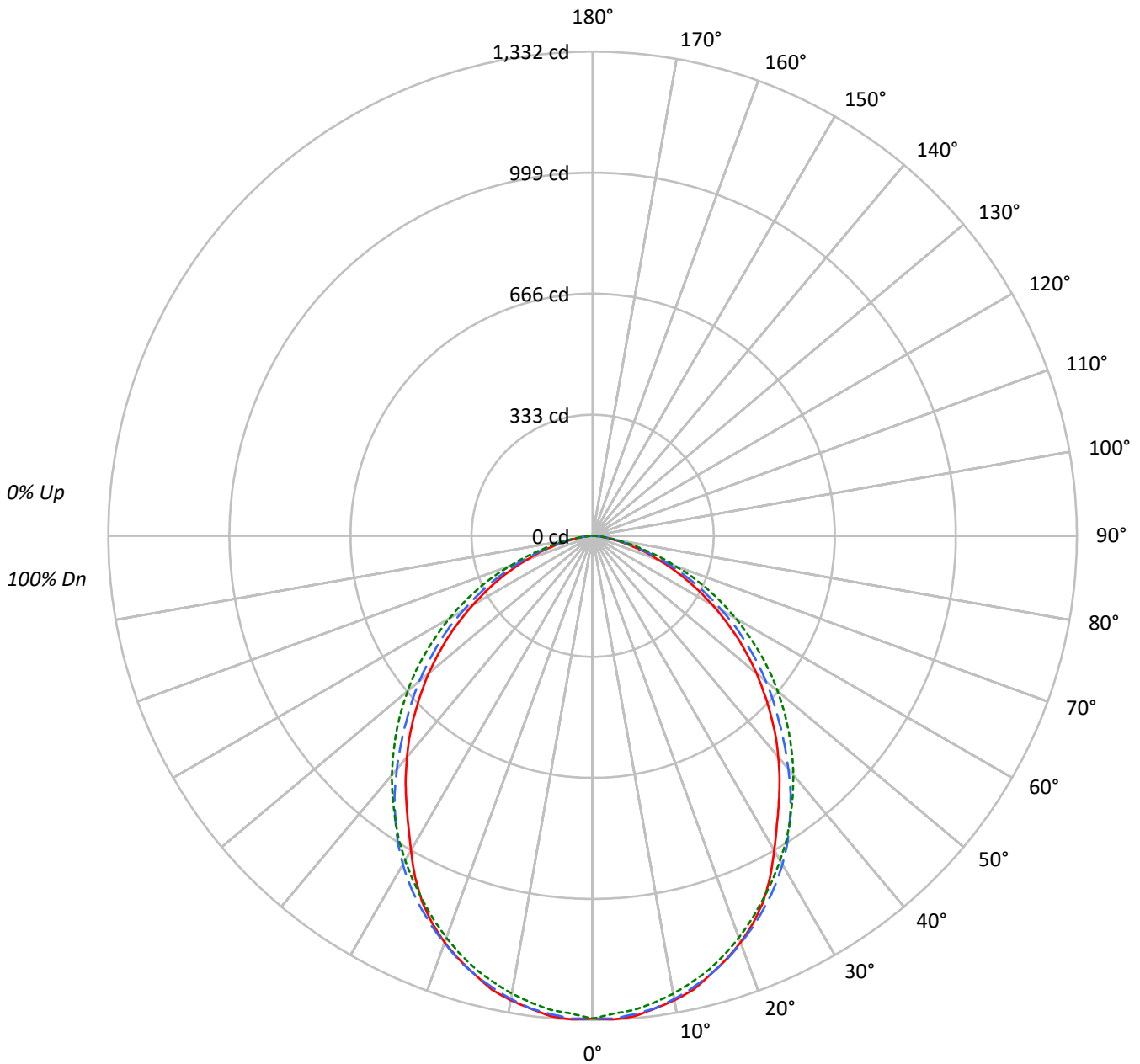
Lumens per Lamp: N/A
Luminaire Lumens: 3071.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7148	7148	7148
5°	7167	7137	7076
10°	7091	7071	6990
15°	6965	6965	6886
20°	6818	6826	6739
25°	6593	6675	6569
30°	6208	6487	6408
35°	5866	6219	6229
40°	5581	5883	6036
45°	5262	5527	5810
50°	4926	5208	5562
55°	4543	4845	5261
60°	4091	4421	4893
65°	3613	3931	4451
70°	3010	3349	3781
75°	2366	2674	2961
80°	1692	1881	2089
85°	1105	1105	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.1
10°-20°	351.3	11.4
20°-30°	513.4	16.7
30°-40°	582.7	19.0
40°-50°	562.5	18.3
50°-60°	464.0	15.1
60°-70°	309.0	10.1
70°-80°	138.3	4.5
80°-90°	24.7	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°	989.7	32.2
0°-40°	1572.4	51.2
0°-60°	2599.0	84.6
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1327	1326	1321	1314	1310	126
15°	1250	1253	1250	1244	1236	352
25°	1110	1119	1124	1116	1106	508
35°	893	905	946	952	948	559
45°	691	703	726	759	763	533
55°	484	492	516	545	561	432
65°	284	291	309	331	350	281
75°	114	120	129	135	142	124
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°	1328.1	1328.1	1328.1	1328.1	1328.1
2.5°	1331.7	1332.2	1329.1	1321.0	1315.9
5°	1326.6	1326.1	1321.0	1313.8	1309.8
7.5°	1311.8	1312.8	1311.3	1301.1	1295.5
10°	1297.5	1298.0	1293.9	1285.8	1279.1
12.5°	1279.1	1278.6	1273.0	1268.9	1258.2
15°	1250.1	1253.1	1250.1	1244.5	1235.8
17.5°	1222.0	1222.0	1224.0	1214.3	1207.7
20°	1190.4	1191.9	1191.9	1184.2	1176.6
22.5°	1153.6	1158.2	1159.8	1151.6	1142.4
25°	1110.3	1118.9	1124.0	1115.9	1106.2
27.5°	1057.7	1071.0	1086.3	1080.2	1069.4
30°	999.0	1018.4	1043.9	1038.8	1031.2
32.5°	943.4	962.8	998.0	996.0	991.9
35°	892.9	905.1	946.5	951.6	948.0
37.5°	844.9	856.2	894.9	906.7	903.6
40°	794.4	806.7	837.3	858.2	859.2
42.5°	744.4	756.2	781.2	811.3	811.3
45°	691.4	703.1	726.1	759.2	763.3
47.5°	639.3	651.6	674.0	707.2	713.8
50°	588.3	599.5	622.0	654.1	664.3
52.5°	535.2	547.5	569.4	599.0	613.8
55°	484.2	492.4	516.4	544.9	560.7
57.5°	431.1	438.8	465.8	490.3	506.7
60°	380.1	389.8	410.7	435.7	454.6
62.5°	331.1	341.3	359.2	381.1	402.6
65°	283.7	291.3	308.7	330.6	349.5
67.5°	237.8	244.4	261.7	277.1	297.0
70°	191.3	200.0	212.8	227.6	240.3
72.5°	154.1	157.7	168.4	179.1	192.4
75°	113.8	119.9	128.6	134.7	142.4
77.5°	81.6	85.2	90.3	95.4	102.6
80°	54.6	56.1	60.7	61.7	67.4
82.5°	33.2	34.2	35.2	35.7	37.8
85°	17.9	17.9	17.9	16.8	16.8
87.5°	10.2	10.2	8.7	7.1	5.1
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)