

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: P555724

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-96-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: P555724
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-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

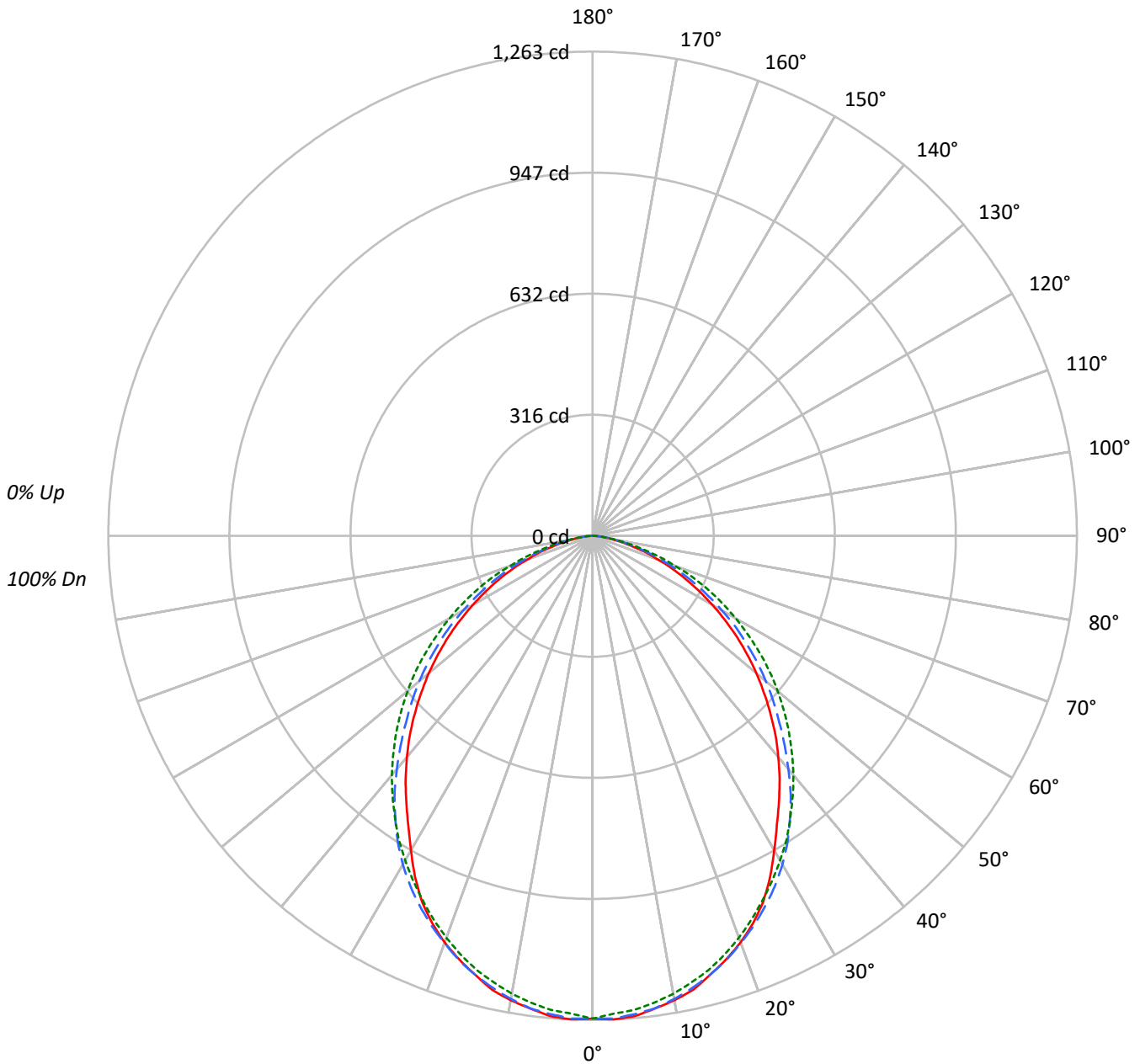
Lumens per Lamp: N/A
Luminaire Lumens: 2912.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6778	6778	6778
5°	6796	6767	6709
10°	6724	6705	6628
15°	6604	6604	6529
20°	6464	6473	6390
25°	6252	6329	6229
30°	5887	6152	6077
35°	5563	5897	5906
40°	5292	5578	5724
45°	4990	5240	5509
50°	4670	4938	5274
55°	4308	4594	4989
60°	3879	4193	4640
65°	3426	3727	4220
70°	2854	3174	3586
75°	2244	2535	2807
80°	1605	1785	1980
85°	1044	1044	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	4.1
10°-20°	333.1	11.4
20°-30°	486.8	16.7
30°-40°	552.5	19.0
40°-50°	533.4	18.3
50°-60°	440.0	15.1
60°-70°	293.0	10.1
70°-80°	131.1	4.5
80°-90°	23.5	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°	938.4	32.2
0°-40°	1491.0	51.2
0°-60°	2464.4	84.6
0°-90°	2912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1258	1257	1253	1246	1242	119
15°	1185	1188	1185	1180	1172	334
25°	1053	1061	1066	1058	1049	482
35°	847	858	898	902	899	530
45°	656	667	688	720	724	506
55°	459	467	490	517	532	410
65°	269	276	293	314	331	267
75°	108	114	122	128	135	118
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.4	1259.4	1259.4	1259.4	1259.4
2.5°	1262.8	1263.2	1260.3	1252.6	1247.8
5°	1257.9	1257.4	1252.6	1245.8	1241.9
7.5°	1243.9	1244.9	1243.4	1233.7	1228.4
10°	1230.3	1230.8	1226.9	1219.2	1212.9
12.5°	1212.9	1212.4	1207.1	1203.2	1193.1
15°	1185.3	1188.2	1185.3	1180.0	1171.8
17.5°	1158.7	1158.7	1160.7	1151.5	1145.2
20°	1128.7	1130.2	1130.2	1122.9	1115.7
22.5°	1093.9	1098.3	1099.7	1092.0	1083.3
25°	1052.8	1061.0	1065.8	1058.1	1048.9
27.5°	1002.9	1015.5	1030.0	1024.2	1014.1
30°	947.3	965.7	989.9	985.0	977.8
32.5°	894.6	913.0	946.3	944.4	940.5
35°	846.7	858.3	897.5	902.3	898.9
37.5°	801.2	811.8	848.6	859.7	856.8
40°	753.3	764.9	793.9	813.8	814.7
42.5°	705.9	717.0	740.7	769.3	769.3
45°	655.6	666.7	688.5	719.9	723.8
47.5°	606.2	617.8	639.1	670.6	676.9
50°	557.8	568.5	589.8	620.2	629.9
52.5°	507.5	519.1	539.9	568.0	582.0
55°	459.1	466.9	489.6	516.7	531.7
57.5°	408.8	416.1	441.7	464.9	480.4
60°	360.4	369.6	389.5	413.2	431.1
62.5°	314.0	323.7	340.6	361.4	381.7
65°	269.0	276.3	292.7	313.5	331.4
67.5°	225.5	231.7	248.2	262.7	281.6
70°	181.4	189.7	201.7	215.8	227.9
72.5°	146.1	149.5	159.7	169.8	182.4
75°	107.9	113.7	121.9	127.7	135.0
77.5°	77.4	80.8	85.6	90.5	97.2
80°	51.8	53.2	57.6	58.5	63.9
82.5°	31.4	32.4	33.4	33.9	35.8
85°	16.9	16.9	16.9	16.0	16.0
87.5°	9.7	9.7	8.2	6.8	4.8
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)