

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: P555810

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-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: P555810
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

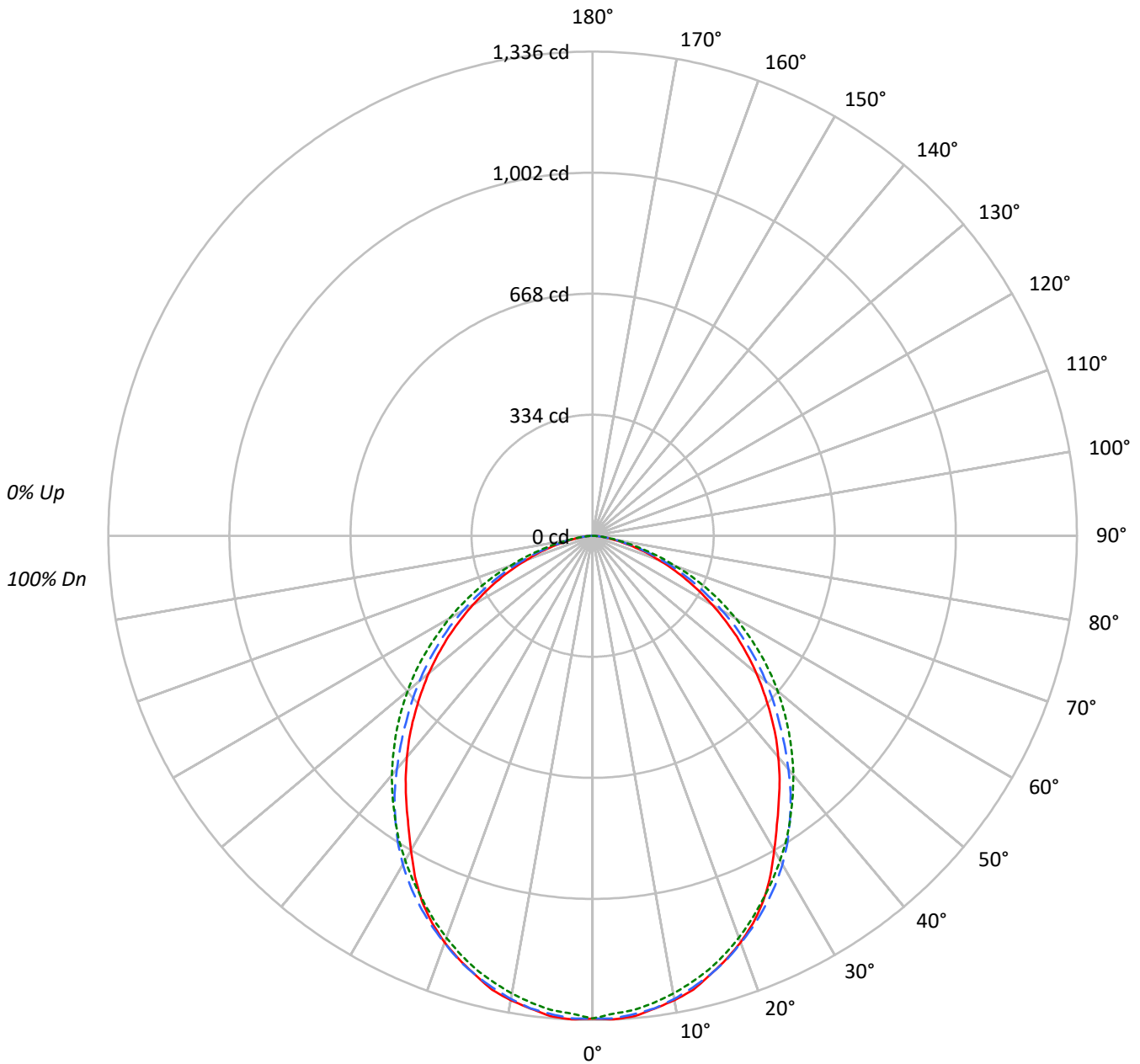
Lumens per Lamp: N/A
Luminaire Lumens: 3080.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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: P555810

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-85-EDD-90

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°	7169	7169	7169
5°	7188	7158	7097
10°	7112	7092	7011
15°	6985	6985	6906
20°	6838	6846	6758
25°	6612	6694	6588
30°	6227	6507	6427
35°	5884	6237	6247
40°	5598	5899	6054
45°	5278	5543	5826
50°	4940	5223	5579
55°	4556	4860	5277
60°	4103	4434	4907
65°	3623	3943	4464
70°	3020	3358	3792
75°	2373	2682	2969
80°	1698	1888	2092
85°	1105	1105	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	4.1
10°-20°	352.3	11.4
20°-30°	514.9	16.7
30°-40°	584.4	19.0
40°-50°	564.2	18.3
50°-60°	465.4	15.1
60°-70°	309.9	10.1
70°-80°	138.7	4.5
80°-90°	24.8	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°	992.6	32.2
0°-40°	1577.0	51.2
0°-60°	2606.6	84.6
0°-90°	3080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1330	1330	1325	1318	1314	126
15°	1254	1257	1254	1248	1239	353
25°	1114	1122	1127	1119	1109	510
35°	896	908	949	954	951	561
45°	693	705	728	761	766	535
55°	486	494	518	546	562	433
65°	284	292	310	332	350	282
75°	114	120	129	135	143	125
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°	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1335.6	1336.1	1333.0	1324.9	1319.7
5°	1330.5	1330.0	1324.9	1317.7	1313.6
7.5°	1315.6	1316.7	1315.1	1304.9	1299.3
10°	1301.3	1301.8	1297.7	1289.5	1282.9
12.5°	1282.9	1282.4	1276.8	1272.7	1261.9
15°	1253.7	1256.8	1253.7	1248.1	1239.4
17.5°	1225.6	1225.6	1227.6	1217.9	1211.3
20°	1193.9	1195.4	1195.4	1187.7	1180.0
22.5°	1157.0	1161.6	1163.2	1155.0	1145.8
25°	1113.5	1122.2	1127.3	1119.1	1109.4
27.5°	1060.8	1074.1	1089.5	1083.3	1072.6
30°	1002.0	1021.4	1047.0	1041.9	1034.2
32.5°	946.2	965.6	1000.9	998.9	994.8
35°	895.5	907.8	949.3	954.4	950.8
37.5°	847.4	858.7	897.6	909.3	906.3
40°	796.8	809.0	839.7	860.7	861.7
42.5°	746.6	758.4	783.5	813.6	813.6
45°	693.4	705.2	728.2	761.4	765.5
47.5°	641.2	653.5	676.0	709.3	715.9
50°	590.0	601.3	623.8	656.0	666.3
52.5°	536.8	549.1	571.1	600.8	615.6
55°	485.6	493.8	517.9	546.5	562.4
57.5°	432.4	440.1	467.2	491.8	508.1
60°	381.2	391.0	411.9	437.0	455.9
62.5°	332.1	342.3	360.3	382.3	403.8
65°	284.5	292.2	309.6	331.6	350.5
67.5°	238.5	245.1	262.5	277.9	297.8
70°	191.9	200.6	213.4	228.2	241.0
72.5°	154.5	158.1	168.9	179.6	192.9
75°	114.1	120.3	129.0	135.1	142.8
77.5°	81.9	85.5	90.6	95.7	102.9
80°	54.8	56.3	60.9	61.9	67.5
82.5°	33.3	34.3	35.3	35.8	37.9
85°	17.9	17.9	17.9	16.9	16.9
87.5°	10.2	10.2	8.7	7.2	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)