

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: P555213

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-96-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: P555213
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-LD4-2STD-35-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

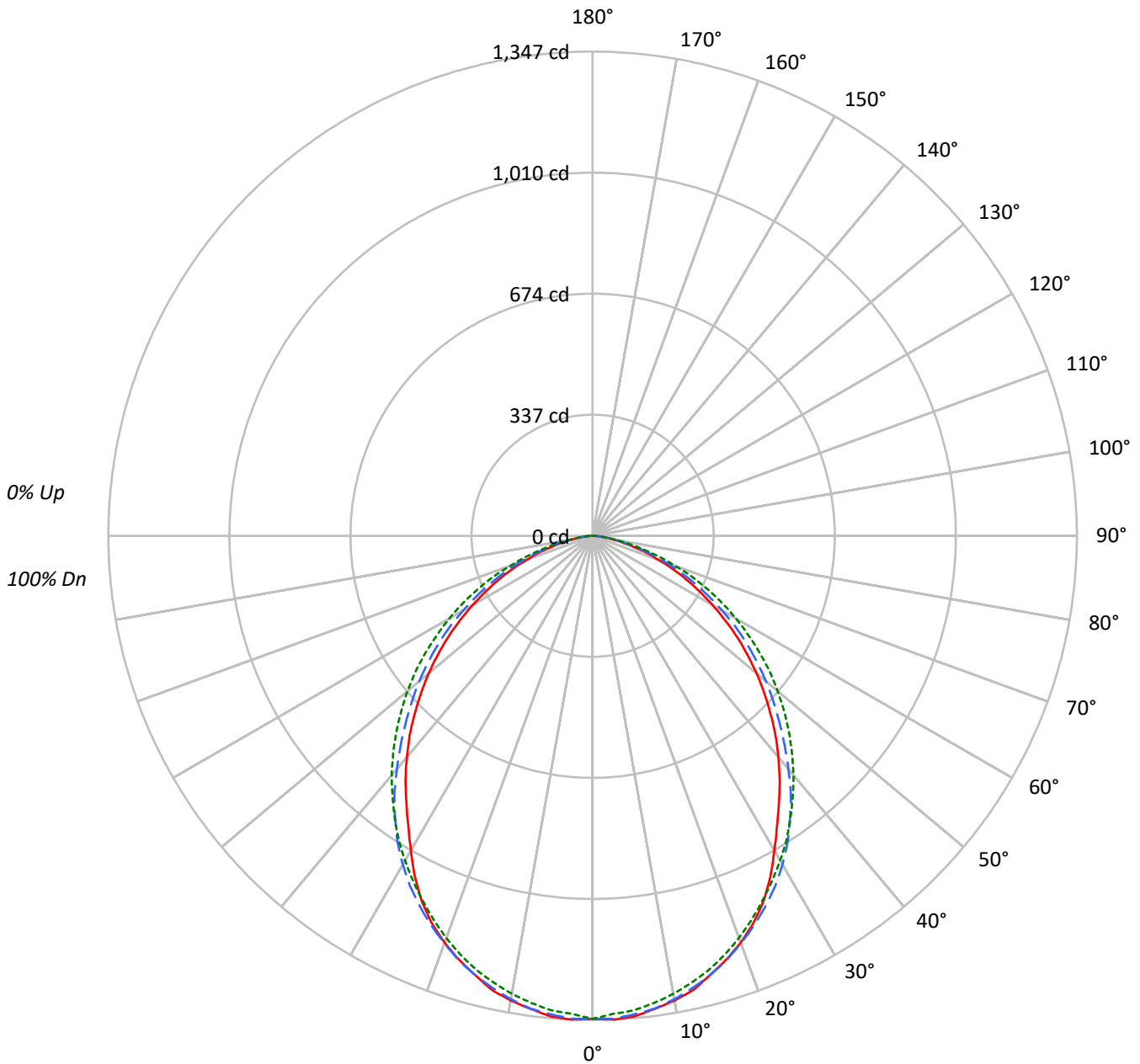
Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555213

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-96-EDD

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°	7232	7232	7232
5°	7251	7220	7159
10°	7174	7154	7072
15°	7047	7047	6966
20°	6897	6907	6818
25°	6671	6753	6646
30°	6281	6564	6484
35°	5935	6292	6301
40°	5647	5951	6107
45°	5324	5591	5878
50°	4984	5269	5627
55°	4597	4902	5323
60°	4140	4472	4950
65°	3655	3977	4503
70°	3046	3388	3825
75°	2393	2705	2994
80°	1711	1903	2111
85°	1118	1118	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.1
10°-20°	355.4	11.4
20°-30°	519.4	16.7
30°-40°	589.5	19.0
40°-50°	569.1	18.3
50°-60°	469.5	15.1
60°-70°	312.6	10.1
70°-80°	139.9	4.5
80°-90°	25.0	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°	1001.3	32.2
0°-40°	1590.8	51.2
0°-60°	2629.4	84.6
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1342	1342	1336	1329	1325	127
15°	1265	1268	1265	1259	1250	357
25°	1123	1132	1137	1129	1119	514
35°	903	916	958	963	959	566
45°	700	711	735	768	772	540
55°	490	498	522	551	567	437
65°	287	295	312	334	354	285
75°	115	121	130	136	144	126
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°	1343.7	1343.7	1343.7	1343.7	1343.7
2.5°	1347.3	1347.8	1344.7	1336.5	1331.3
5°	1342.1	1341.6	1336.5	1329.2	1325.1
7.5°	1327.2	1328.2	1326.7	1316.3	1310.7
10°	1312.7	1313.2	1309.1	1300.9	1294.1
12.5°	1294.1	1293.6	1287.9	1283.8	1273.0
15°	1264.7	1267.8	1264.7	1259.0	1250.3
17.5°	1236.3	1236.3	1238.4	1228.6	1221.9
20°	1204.3	1205.9	1205.9	1198.1	1190.4
22.5°	1167.2	1171.8	1173.3	1165.1	1155.8
25°	1123.3	1132.1	1137.2	1129.0	1119.1
27.5°	1070.1	1083.5	1099.0	1092.8	1082.0
30°	1010.7	1030.4	1056.2	1051.0	1043.3
32.5°	954.5	974.1	1009.7	1007.6	1003.5
35°	903.4	915.8	957.6	962.7	959.1
37.5°	854.8	866.2	905.4	917.3	914.2
40°	803.7	816.1	847.1	868.3	869.3
42.5°	753.2	765.0	790.3	820.8	820.8
45°	699.5	711.3	734.6	768.1	772.3
47.5°	646.8	659.2	681.9	715.5	722.2
50°	595.2	606.5	629.3	661.8	672.1
52.5°	541.5	553.9	576.1	606.0	621.0
55°	489.9	498.1	522.4	551.3	567.3
57.5°	436.2	443.9	471.3	496.1	512.6
60°	384.6	394.4	415.5	440.8	459.9
62.5°	335.0	345.3	363.4	385.6	407.3
65°	287.0	294.8	312.3	334.5	353.6
67.5°	240.6	247.3	264.8	280.3	300.4
70°	193.6	202.4	215.3	230.2	243.1
72.5°	155.9	159.5	170.3	181.2	194.6
75°	115.1	121.3	130.1	136.3	144.0
77.5°	82.6	86.2	91.4	96.5	103.8
80°	55.2	56.8	61.4	62.5	68.1
82.5°	33.6	34.6	35.6	36.1	38.2
85°	18.1	18.1	18.1	17.0	17.0
87.5°	10.3	10.3	8.8	7.2	5.2
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)