

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: P554798

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-97-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: P554798
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-LD4-2HI-40-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

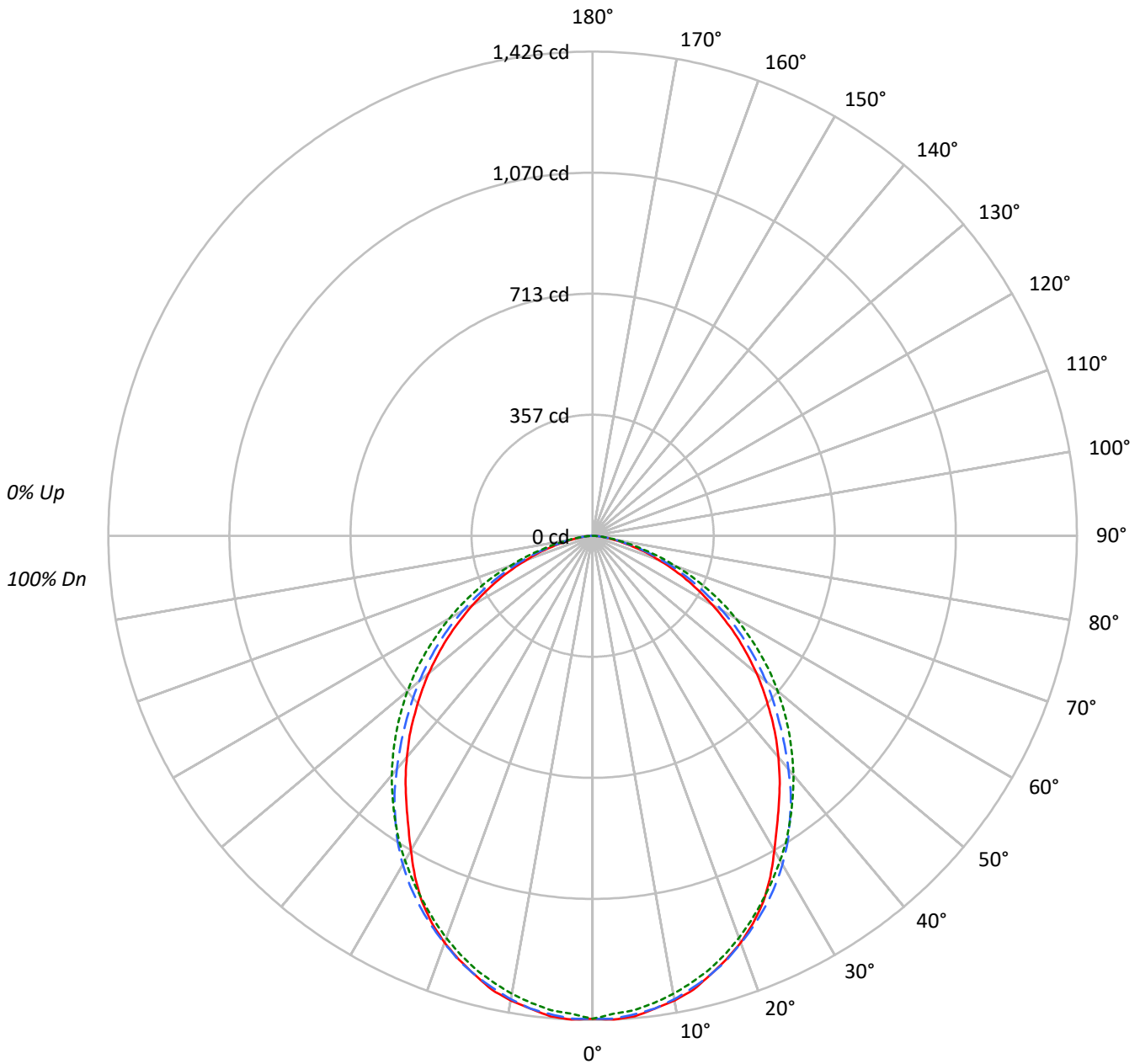
Lumens per Lamp: N/A
Luminaire Lumens: 3289.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7655	7655	7655
5°	7676	7643	7578
10°	7594	7573	7486
15°	7460	7460	7374
20°	7302	7311	7217
25°	7061	7149	7035
30°	6649	6948	6863
35°	6283	6660	6671
40°	5977	6300	6465
45°	5635	5918	6222
50°	5276	5577	5957
55°	4866	5189	5635
60°	4382	4735	5241
65°	3869	4210	4767
70°	3224	3586	4050
75°	2535	2863	3171
80°	1813	2015	2235
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	4.1
10°-20°	376.2	11.4
20°-30°	549.8	16.7
30°-40°	624.1	19.0
40°-50°	602.5	18.3
50°-60°	497.0	15.1
60°-70°	330.9	10.1
70°-80°	148.1	4.5
80°-90°	26.5	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°	1059.9	32.2
0°-40°	1684.0	51.2
0°-60°	2783.4	84.6
0°-90°	3289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1421	1420	1415	1407	1403	134
15°	1339	1342	1339	1333	1324	377
25°	1189	1198	1204	1195	1185	545
35°	956	969	1014	1019	1015	599
45°	740	753	778	813	818	571
55°	519	527	553	584	600	463
65°	304	312	331	354	374	301
75°	122	128	138	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1422.4	1422.4	1422.4	1422.4	1422.4
2.5°	1426.2	1426.8	1423.5	1414.8	1409.3
5°	1420.8	1420.2	1414.8	1407.1	1402.7
7.5°	1404.9	1406.0	1404.4	1393.4	1387.4
10°	1389.6	1390.2	1385.8	1377.1	1369.9
12.5°	1369.9	1369.4	1363.4	1359.0	1347.5
15°	1338.8	1342.1	1338.8	1332.8	1323.5
17.5°	1308.7	1308.7	1310.9	1300.5	1293.4
20°	1274.9	1276.5	1276.5	1268.3	1260.1
22.5°	1235.5	1240.4	1242.1	1233.3	1223.5
25°	1189.1	1198.4	1203.8	1195.1	1184.7
27.5°	1132.8	1147.0	1163.4	1156.8	1145.4
30°	1069.9	1090.7	1118.0	1112.6	1104.4
32.5°	1010.4	1031.1	1068.9	1066.7	1062.3
35°	956.3	969.4	1013.7	1019.1	1015.3
37.5°	904.9	916.9	958.5	971.0	967.8
40°	850.8	863.9	896.7	919.1	920.2
42.5°	797.3	809.8	836.6	868.9	868.9
45°	740.4	753.0	777.6	813.1	817.5
47.5°	684.7	697.8	721.9	757.4	764.5
50°	630.1	642.1	666.1	700.5	711.5
52.5°	573.2	586.3	609.8	641.5	657.4
55°	518.6	527.3	553.0	583.6	600.5
57.5°	461.7	469.9	498.9	525.1	542.6
60°	407.1	417.5	439.9	466.7	486.9
62.5°	354.6	365.6	384.7	408.2	431.1
65°	303.8	312.0	330.6	354.1	374.3
67.5°	254.6	261.7	280.3	296.7	318.0
70°	204.9	214.2	227.9	243.7	257.4
72.5°	165.0	168.9	180.3	191.8	206.0
75°	121.9	128.4	137.7	144.3	152.5
77.5°	87.4	91.3	96.7	102.2	109.8
80°	58.5	60.1	65.0	66.1	72.1
82.5°	35.5	36.6	37.7	38.3	40.4
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.7	5.5
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)