

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: P555311

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-97-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: P555311
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-40-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

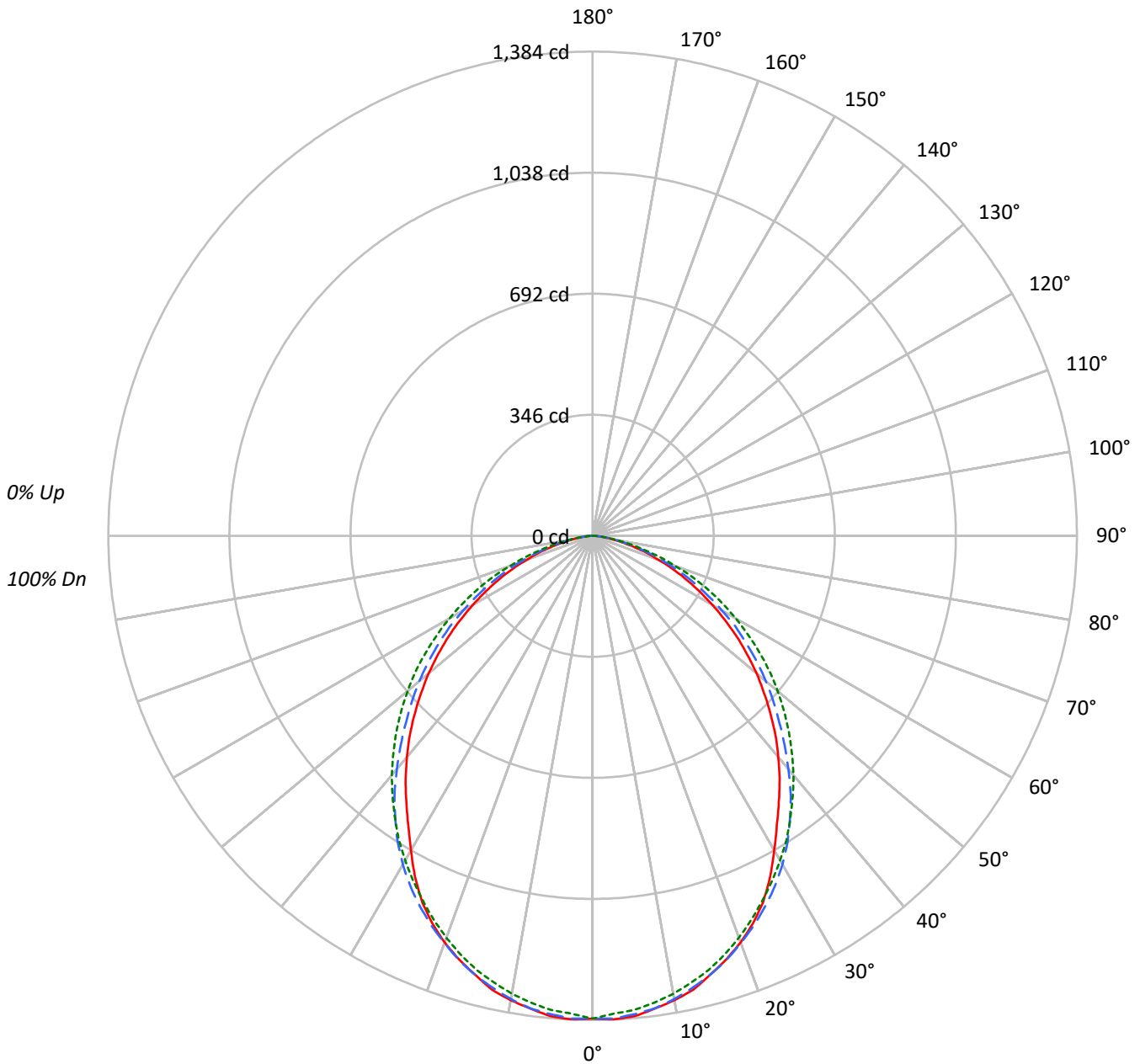
Lumens per Lamp: N/A
Luminaire Lumens: 3191.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7427	7427	7427
5°	7447	7415	7352
10°	7368	7348	7264
15°	7237	7237	7155
20°	7084	7093	7002
25°	6850	6936	6826
30°	6451	6741	6659
35°	6096	6462	6472
40°	5800	6112	6272
45°	5468	5742	6036
50°	5118	5411	5780
55°	4721	5034	5468
60°	4252	4594	5085
65°	3754	4085	4625
70°	3128	3479	3929
75°	2458	2778	3075
80°	1757	1956	2170
85°	1149	1149	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	4.1
10°-20°	365.0	11.4
20°-30°	533.4	16.7
30°-40°	605.5	19.0
40°-50°	584.5	18.3
50°-60°	482.2	15.1
60°-70°	321.1	10.1
70°-80°	143.7	4.5
80°-90°	25.7	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°	1028.4	32.2
0°-40°	1633.9	51.2
0°-60°	2700.5	84.6
0°-90°	3191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1378	1378	1373	1365	1361	130
15°	1299	1302	1299	1293	1284	366
25°	1154	1163	1168	1160	1149	528
35°	928	940	984	989	985	581
45°	718	731	754	789	793	554
55°	503	512	536	566	583	449
65°	295	303	321	344	363	292
75°	118	125	134	140	148	129
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.0	1380.0	1380.0	1380.0	1380.0
2.5°	1383.7	1384.3	1381.1	1372.6	1367.3
5°	1378.4	1377.9	1372.6	1365.2	1360.9
7.5°	1363.1	1364.1	1362.5	1351.9	1346.1
10°	1348.2	1348.7	1344.5	1336.0	1329.1
12.5°	1329.1	1328.6	1322.8	1318.5	1307.4
15°	1298.9	1302.1	1298.9	1293.1	1284.1
17.5°	1269.8	1269.8	1271.9	1261.8	1254.9
20°	1236.9	1238.5	1238.5	1230.5	1222.6
22.5°	1198.7	1203.5	1205.1	1196.6	1187.0
25°	1153.6	1162.7	1168.0	1159.5	1149.4
27.5°	1099.0	1112.8	1128.7	1122.4	1111.2
30°	1038.1	1058.2	1084.7	1079.4	1071.5
32.5°	980.3	1000.4	1037.0	1034.9	1030.6
35°	927.8	940.5	983.5	988.8	985.1
37.5°	878.0	889.6	929.9	942.1	938.9
40°	825.5	838.2	870.0	891.7	892.8
42.5°	773.5	785.7	811.7	843.0	843.0
45°	718.4	730.6	754.4	788.9	793.1
47.5°	664.3	677.0	700.4	734.8	741.7
50°	611.3	622.9	646.3	679.7	690.3
52.5°	556.1	568.9	591.7	622.4	637.8
55°	503.1	511.6	536.5	566.2	582.7
57.5°	448.0	455.9	484.0	509.5	526.5
60°	395.0	405.0	426.8	452.8	472.4
62.5°	344.1	354.7	373.2	396.0	418.3
65°	294.8	302.7	320.8	343.5	363.2
67.5°	247.1	254.0	272.0	287.9	308.6
70°	198.8	207.8	221.1	236.5	249.7
72.5°	160.1	163.8	175.0	186.1	199.9
75°	118.2	124.6	133.6	140.0	147.9
77.5°	84.8	88.5	93.8	99.1	106.6
80°	56.7	58.3	63.1	64.2	70.0
82.5°	34.5	35.5	36.6	37.1	39.2
85°	18.6	18.6	18.6	17.5	17.5
87.5°	10.6	10.6	9.0	7.4	5.3
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)