

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: P554780

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-96-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: P554780
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-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

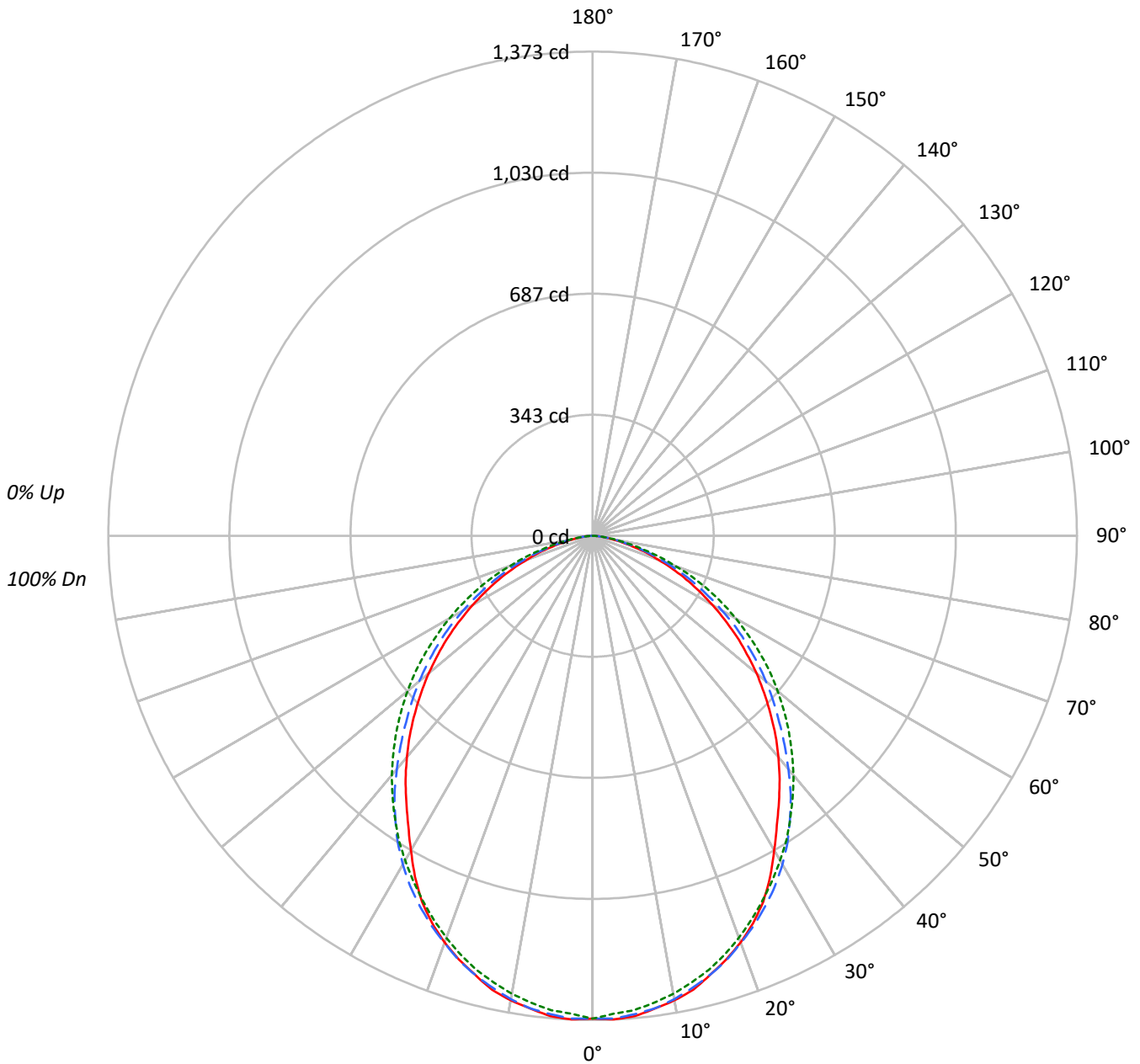
Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7369	7369	7369
5°	7388	7357	7295
10°	7311	7290	7207
15°	7180	7180	7098
20°	7029	7038	6947
25°	6797	6881	6772
30°	6400	6688	6607
35°	6048	6411	6421
40°	5754	6065	6223
45°	5425	5697	5989
50°	5078	5369	5735
55°	4684	4995	5424
60°	4218	4557	5045
65°	3725	4052	4588
70°	3105	3451	3899
75°	2439	2757	3053
80°	1745	1940	2151
85°	1136	1136	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.1
10°-20°	362.2	11.4
20°-30°	529.2	16.7
30°-40°	600.7	19.0
40°-50°	579.9	18.3
50°-60°	478.4	15.1
60°-70°	318.6	10.1
70°-80°	142.6	4.5
80°-90°	25.5	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°	1020.3	32.2
0°-40°	1621.1	51.2
0°-60°	2679.4	84.6
0°-90°	3166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1368	1367	1362	1354	1350	129
15°	1289	1292	1289	1283	1274	363
25°	1145	1154	1159	1150	1140	524
35°	920	933	976	981	977	577
45°	713	725	748	783	787	550
55°	499	508	532	562	578	446
65°	292	300	318	341	360	290
75°	117	124	133	139	147	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1372.9	1373.4	1370.3	1361.8	1356.6
5°	1367.6	1367.1	1361.8	1354.5	1350.3
7.5°	1352.4	1353.4	1351.9	1341.3	1335.5
10°	1337.7	1338.2	1334.0	1325.6	1318.7
12.5°	1318.7	1318.2	1312.4	1308.2	1297.1
15°	1288.7	1291.9	1288.7	1282.9	1274.0
17.5°	1259.8	1259.8	1261.9	1251.9	1245.1
20°	1227.2	1228.8	1228.8	1220.9	1213.0
22.5°	1189.3	1194.1	1195.6	1187.2	1177.7
25°	1144.6	1153.5	1158.8	1150.4	1140.4
27.5°	1090.4	1104.1	1119.9	1113.6	1102.5
30°	1029.9	1049.9	1076.2	1071.0	1063.1
32.5°	972.6	992.6	1028.9	1026.8	1022.6
35°	920.5	933.1	975.8	981.0	977.3
37.5°	871.1	882.7	922.6	934.7	931.6
40°	819.0	831.6	863.2	884.8	885.8
42.5°	767.5	779.6	805.3	836.4	836.4
45°	712.7	724.8	748.5	782.7	786.9
47.5°	659.1	671.7	694.9	729.1	735.9
50°	606.5	618.1	641.2	674.3	684.9
52.5°	551.8	564.4	587.0	617.5	632.8
55°	499.2	507.6	532.3	561.8	578.1
57.5°	444.5	452.4	480.3	505.5	522.3
60°	391.9	401.9	423.4	449.2	468.7
62.5°	341.4	351.9	370.3	392.9	415.0
65°	292.5	300.4	318.2	340.9	360.3
67.5°	245.1	252.0	269.8	285.6	306.1
70°	197.3	206.2	219.3	234.6	247.8
72.5°	158.9	162.5	173.6	184.6	198.3
75°	117.3	123.6	132.6	138.9	146.8
77.5°	84.2	87.8	93.1	98.4	105.7
80°	56.3	57.9	62.6	63.6	69.4
82.5°	34.2	35.2	36.3	36.8	38.9
85°	18.4	18.4	18.4	17.4	17.4
87.5°	10.5	10.5	8.9	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)