

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: P555647

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-97-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: P555647
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-30-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

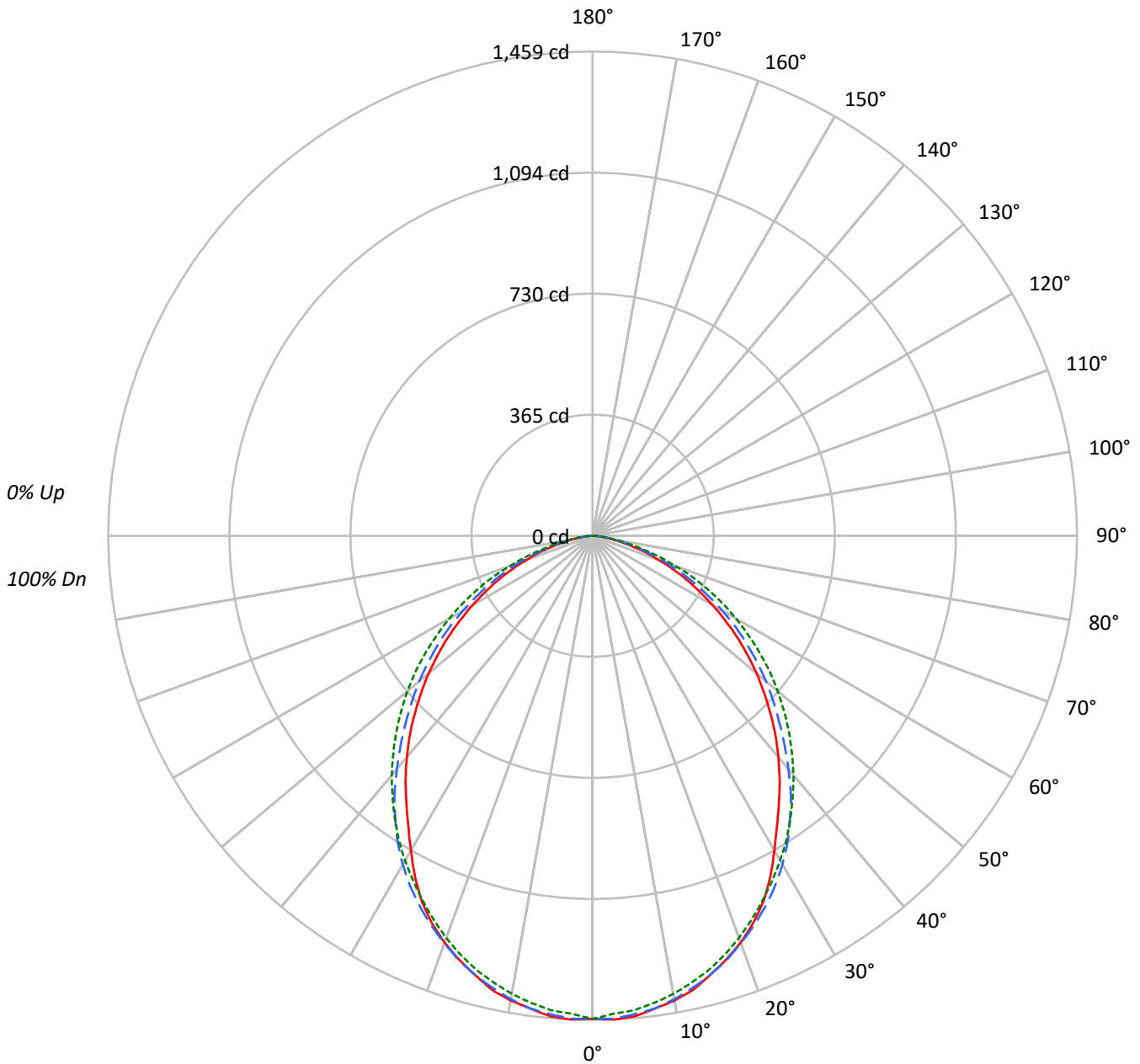
Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7832	7832	7832
5°	7853	7820	7753
10°	7770	7748	7660
15°	7632	7632	7545
20°	7470	7480	7384
25°	7225	7314	7198
30°	6803	7109	7022
35°	6428	6814	6825
40°	6116	6445	6615
45°	5766	6056	6366
50°	5397	5706	6095
55°	4979	5309	5765
60°	4483	4845	5362
65°	3958	4307	4877
70°	3300	3668	4143
75°	2593	2930	3244
80°	1853	2061	2287
85°	1210	1210	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.1
10°-20°	384.9	11.4
20°-30°	562.5	16.7
30°-40°	638.5	19.0
40°-50°	616.4	18.3
50°-60°	508.5	15.1
60°-70°	338.6	10.1
70°-80°	151.5	4.5
80°-90°	27.1	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°	1084.4	32.2
0°-40°	1722.9	51.2
0°-60°	2847.8	84.6
0°-90°	3365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1454	1453	1447	1440	1435	138
15°	1370	1373	1370	1364	1354	386
25°	1217	1226	1232	1223	1212	557
35°	978	992	1037	1043	1039	613
45°	758	770	796	832	836	584
55°	531	540	566	597	614	474
65°	311	319	338	362	383	308
75°	125	131	141	148	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.3	1455.3	1455.3	1455.3	1455.3
2.5°	1459.2	1459.7	1456.4	1447.4	1441.9
5°	1453.6	1453.0	1447.4	1439.6	1435.1
7.5°	1437.4	1438.5	1436.8	1425.6	1419.5
10°	1421.7	1422.3	1417.8	1408.9	1401.6
12.5°	1401.6	1401.0	1394.9	1390.4	1378.7
15°	1369.7	1373.1	1369.7	1363.6	1354.1
17.5°	1339.0	1339.0	1341.2	1330.6	1323.3
20°	1304.3	1306.0	1306.0	1297.6	1289.2
22.5°	1264.1	1269.1	1270.8	1261.8	1251.8
25°	1216.6	1226.1	1231.6	1222.7	1212.1
27.5°	1159.0	1173.5	1190.3	1183.6	1171.8
30°	1094.7	1115.9	1143.9	1138.3	1129.9
32.5°	1033.7	1055.0	1093.6	1091.3	1086.8
35°	978.4	991.8	1037.1	1042.7	1038.8
37.5°	925.8	938.1	980.6	993.5	990.1
40°	870.5	883.9	917.4	940.4	941.5
42.5°	815.7	828.6	855.9	888.9	888.9
45°	757.5	770.4	795.6	831.9	836.4
47.5°	700.5	713.9	738.5	774.9	782.1
50°	644.6	656.9	681.5	716.7	727.9
52.5°	586.5	599.9	623.9	656.4	672.6
55°	530.6	539.5	565.8	597.1	614.4
57.5°	472.4	480.8	510.4	537.3	555.2
60°	416.5	427.1	450.1	477.5	498.1
62.5°	362.8	374.0	393.6	417.6	441.1
65°	310.8	319.2	338.2	362.3	383.0
67.5°	260.5	267.8	286.8	303.6	325.4
70°	209.7	219.2	233.1	249.3	263.3
72.5°	168.8	172.8	184.5	196.2	210.8
75°	124.7	131.4	140.9	147.6	156.0
77.5°	89.5	93.4	99.0	104.5	112.4
80°	59.8	61.5	66.5	67.6	73.8
82.5°	36.3	37.5	38.6	39.1	41.4
85°	19.6	19.6	19.6	18.4	18.4
87.5°	11.2	11.2	9.5	7.8	5.6
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)