

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: P555632

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-84-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: P555632
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

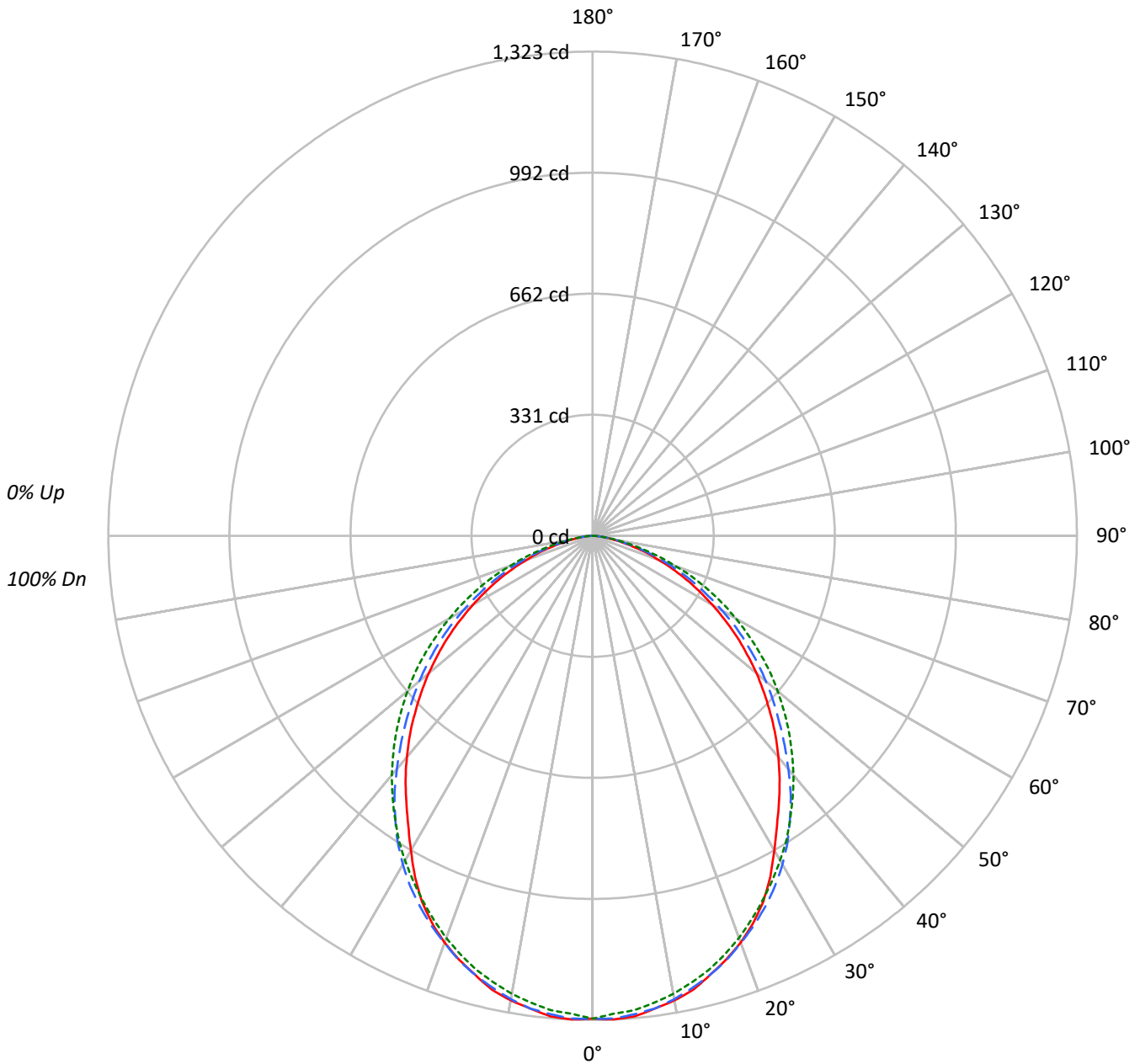
Lumens per Lamp: N/A
Luminaire Lumens: 3051.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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				20				
RC	80				70				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			100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73			73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54			54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47			47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34			34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30			30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7101	7101	7101
5°	7121	7090	7030
10°	7045	7025	6945
15°	6920	6920	6841
20°	6773	6782	6695
25°	6550	6631	6526
30°	6168	6445	6367
35°	5828	6178	6188
40°	5545	5844	5997
45°	5228	5490	5772
50°	4894	5174	5526
55°	4514	4814	5227
60°	4064	4393	4862
65°	3589	3906	4422
70°	2991	3327	3758
75°	2350	2655	2940
80°	1680	1869	2073
85°	1093	1093	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	4.1
10°-20°	349.0	11.4
20°-30°	510.0	16.7
30°-40°	578.9	19.0
40°-50°	558.9	18.3
50°-60°	461.0	15.1
60°-70°	307.0	10.1
70°-80°	137.4	4.5
80°-90°	24.6	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°	983.2	32.2
0°-40°	1562.2	51.2
0°-60°	2582.0	84.6
0°-90°	3051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1318	1312	1305	1301	125
15°	1242	1245	1242	1236	1228	350
25°	1103	1112	1117	1109	1099	505
35°	887	899	940	945	942	556
45°	687	698	721	754	758	530
55°	481	489	513	541	557	429
65°	282	289	307	328	347	279
75°	113	119	128	134	141	124
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°	1319.5	1319.5	1319.5	1319.5	1319.5
2.5°	1323.0	1323.5	1320.5	1312.4	1307.3
5°	1318.0	1317.5	1312.4	1305.3	1301.2
7.5°	1303.3	1304.3	1302.8	1292.6	1287.0
10°	1289.1	1289.6	1285.5	1277.4	1270.8
12.5°	1270.8	1270.3	1264.7	1260.7	1250.0
15°	1241.9	1245.0	1241.9	1236.3	1227.7
17.5°	1214.0	1214.0	1216.1	1206.4	1199.8
20°	1182.6	1184.1	1184.1	1176.5	1168.9
22.5°	1146.1	1150.7	1152.2	1144.1	1135.0
25°	1103.0	1111.6	1116.7	1108.6	1099.0
27.5°	1050.8	1064.0	1079.2	1073.1	1062.5
30°	992.5	1011.8	1037.1	1032.1	1024.5
32.5°	937.3	956.5	991.5	989.5	985.4
35°	887.1	899.3	940.3	945.4	941.8
37.5°	839.4	850.6	889.1	900.8	897.7
40°	789.3	801.4	831.8	852.6	853.6
42.5°	739.6	751.2	776.1	806.0	806.0
45°	686.9	698.5	721.3	754.3	758.3
47.5°	635.2	647.3	669.6	702.6	709.2
50°	584.5	595.6	617.9	649.9	660.0
52.5°	531.7	543.9	565.7	595.1	609.8
55°	481.1	489.2	513.0	541.4	557.1
57.5°	428.3	435.9	462.8	487.1	503.4
60°	377.6	387.3	408.1	432.9	451.7
62.5°	329.0	339.1	356.9	378.7	399.9
65°	281.8	289.4	306.7	328.5	347.2
67.5°	236.2	242.8	260.0	275.3	295.0
70°	190.1	198.7	211.4	226.1	238.8
72.5°	153.1	156.6	167.3	177.9	191.1
75°	113.0	119.1	127.7	133.8	141.4
77.5°	81.1	84.7	89.7	94.8	101.9
80°	54.2	55.8	60.3	61.3	66.9
82.5°	32.9	34.0	35.0	35.5	37.5
85°	17.7	17.7	17.7	16.7	16.7
87.5°	10.1	10.1	8.6	7.1	5.1
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)