

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: P555117

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-96-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: P555117
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-LD4-2LO-50-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

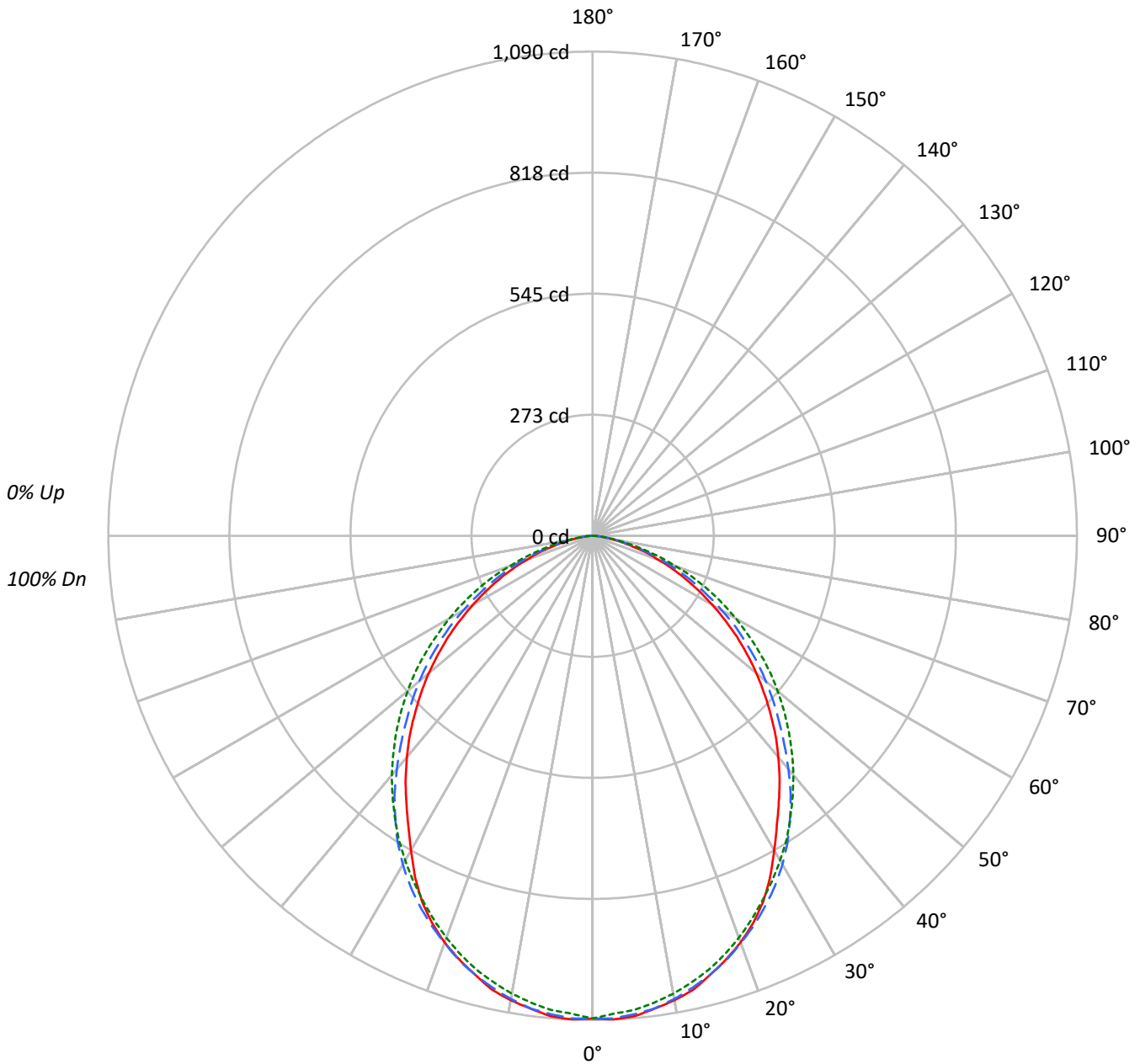
Lumens per Lamp: N/A
Luminaire Lumens: 2513.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5849	5849	5849
5°	5865	5840	5790
10°	5803	5786	5720
15°	5699	5699	5634
20°	5579	5586	5514
25°	5395	5462	5375
30°	5080	5308	5244
35°	4801	5089	5097
40°	4567	4814	4940
45°	4306	4522	4754
50°	4031	4262	4551
55°	3718	3964	4306
60°	3349	3618	4004
65°	2956	3217	3642
70°	2464	2740	3095
75°	1936	2188	2423
80°	1385	1540	1708
85°	902	902	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	4.1
10°-20°	287.5	11.4
20°-30°	420.1	16.7
30°-40°	476.8	19.0
40°-50°	460.3	18.3
50°-60°	379.7	15.1
60°-70°	252.9	10.1
70°-80°	113.1	4.5
80°-90°	20.2	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°	809.9	32.2
0°-40°	1286.7	51.2
0°-60°	2126.7	84.6
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1086	1085	1081	1075	1072	103
15°	1023	1025	1023	1018	1011	288
25°	908	916	920	913	905	416
35°	731	741	774	779	776	458
45°	566	575	594	621	625	437
55°	396	403	422	446	459	354
65°	232	238	253	271	286	230
75°	93	98	105	110	116	102
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1089.7	1090.1	1087.6	1081.0	1076.8
5°	1085.6	1085.1	1081.0	1075.1	1071.8
7.5°	1073.4	1074.3	1073.0	1064.7	1060.1
10°	1061.8	1062.2	1058.8	1052.2	1046.7
12.5°	1046.7	1046.3	1041.7	1038.4	1029.6
15°	1022.9	1025.4	1022.9	1018.3	1011.2
17.5°	1000.0	1000.0	1001.6	993.7	988.3
20°	974.1	975.3	975.3	969.1	962.8
22.5°	944.0	947.8	949.0	942.3	934.8
25°	908.5	915.6	919.8	913.1	905.2
27.5°	865.5	876.4	888.9	883.9	875.1
30°	817.5	833.4	854.2	850.1	843.8
32.5°	772.0	787.9	816.7	815.0	811.7
35°	730.7	740.7	774.5	778.7	775.8
37.5°	691.4	700.6	732.3	741.9	739.4
40°	650.1	660.1	685.2	702.3	703.1
42.5°	609.2	618.8	639.2	663.9	663.9
45°	565.7	575.3	594.1	621.3	624.6
47.5°	523.2	533.2	551.5	578.7	584.1
50°	481.4	490.6	509.0	535.3	543.6
52.5°	438.0	448.0	466.0	490.2	502.3
55°	396.2	402.9	422.5	445.9	458.9
57.5°	352.8	359.1	381.2	401.2	414.6
60°	311.1	319.0	336.1	356.6	372.0
62.5°	271.0	279.3	293.9	311.9	329.4
65°	232.1	238.4	252.6	270.6	286.0
67.5°	194.6	200.0	214.2	226.7	243.0
70°	156.6	163.7	174.1	186.2	196.7
72.5°	126.1	129.0	137.8	146.5	157.4
75°	93.1	98.1	105.2	110.2	116.5
77.5°	66.8	69.7	73.9	78.1	83.9
80°	44.7	45.9	49.7	50.5	55.1
82.5°	27.1	28.0	28.8	29.2	30.9
85°	14.6	14.6	14.6	13.8	13.8
87.5°	8.4	8.4	7.1	5.8	4.2
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)