

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: P554135

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-87-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: P554135
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-LD4-1LO-30-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

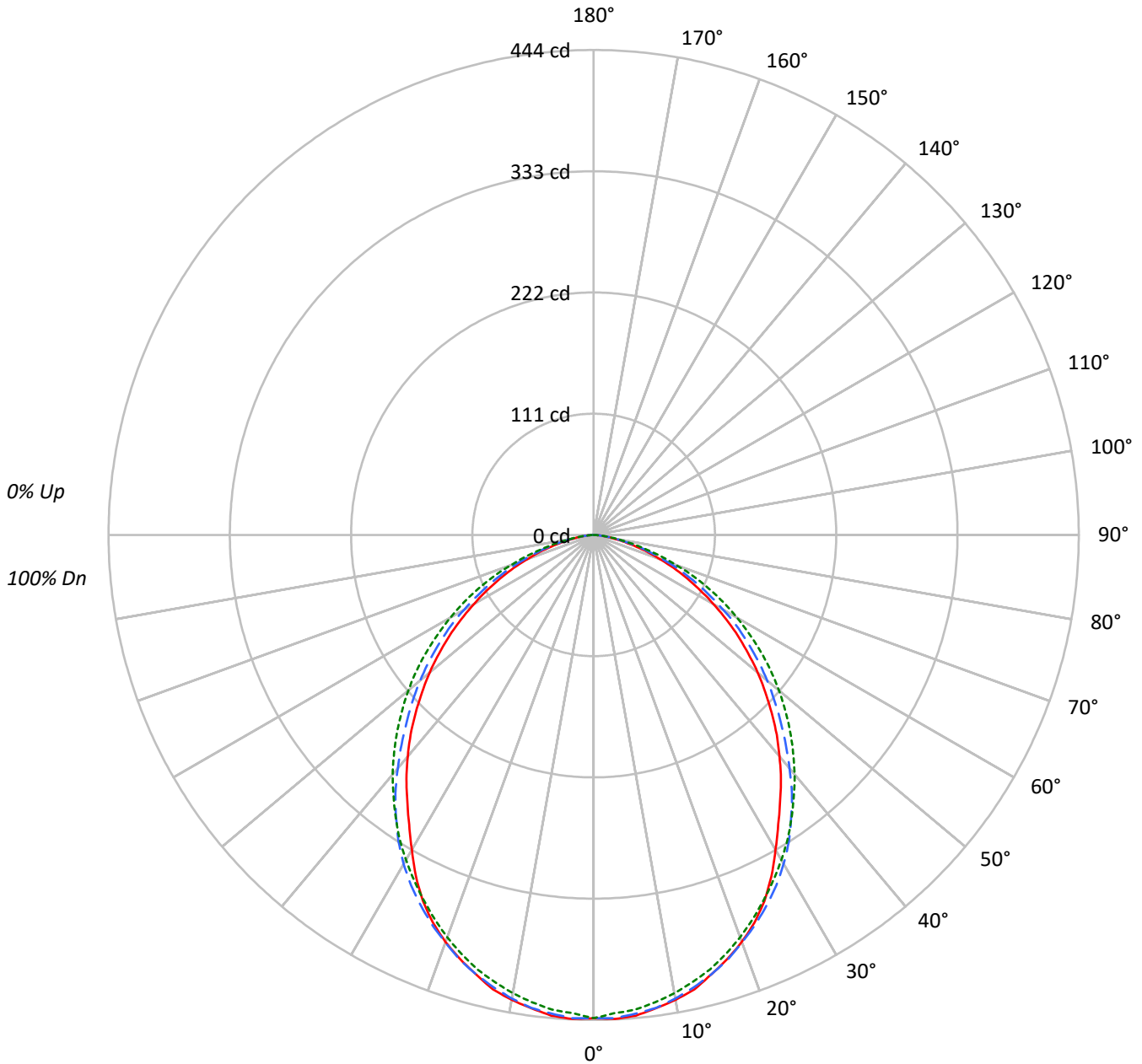
Lumens per Lamp: N/A
Luminaire Lumens: 1023.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P554135

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-82-87-EDD

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°	2381	2381	2381
5°	2387	2377	2357
10°	2362	2355	2329
15°	2320	2320	2294
20°	2271	2274	2245
25°	2196	2223	2188
30°	2068	2161	2135
35°	1954	2072	2075
40°	1859	1959	2011
45°	1753	1841	1936
50°	1641	1735	1853
55°	1514	1614	1753
60°	1363	1473	1630
65°	1203	1309	1482
70°	1002	1116	1260
75°	788	890	986
80°	564	626	694
85°	364	364	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	4.1
10°-20°	117.0	11.4
20°-30°	171.0	16.7
30°-40°	194.1	19.0
40°-50°	187.4	18.3
50°-60°	154.6	15.1
60°-70°	102.9	10.1
70°-80°	46.1	4.5
80°-90°	8.2	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°	329.7	32.2
0°-40°	523.8	51.2
0°-60°	865.8	84.6
0°-90°	1023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	442	440	438	436	42
15°	416	417	416	414	412	117
25°	370	373	374	372	368	169
35°	297	302	315	317	316	186
45°	230	234	242	253	254	178
55°	161	164	172	182	187	144
65°	94	97	103	110	116	94
75°	38	40	43	45	47	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.4	442.4	442.4	442.4	442.4
2.5°	443.6	443.8	442.8	440.0	438.3
5°	441.9	441.7	440.0	437.7	436.3
7.5°	437.0	437.3	436.8	433.4	431.5
10°	432.2	432.4	431.0	428.3	426.1
12.5°	426.1	425.9	424.1	422.7	419.1
15°	416.4	417.4	416.4	414.5	411.7
17.5°	407.1	407.1	407.7	404.5	402.3
20°	396.5	397.0	397.0	394.5	391.9
22.5°	384.3	385.8	386.3	383.6	380.6
25°	369.8	372.7	374.4	371.7	368.5
27.5°	352.3	356.8	361.9	359.8	356.2
30°	332.8	339.3	347.8	346.1	343.5
32.5°	314.3	320.7	332.5	331.8	330.4
35°	297.4	301.5	315.3	317.0	315.8
37.5°	281.5	285.2	298.1	302.0	301.0
40°	264.6	268.7	278.9	285.9	286.2
42.5°	248.0	251.9	260.2	270.2	270.2
45°	230.3	234.2	241.9	252.9	254.3
47.5°	213.0	217.0	224.5	235.6	237.8
50°	196.0	199.7	207.2	217.9	221.3
52.5°	178.3	182.4	189.7	199.5	204.5
55°	161.3	164.0	172.0	181.5	186.8
57.5°	143.6	146.2	155.2	163.3	168.8
60°	126.6	129.9	136.8	145.2	151.4
62.5°	110.3	113.7	119.7	127.0	134.1
65°	94.5	97.1	102.8	110.1	116.4
67.5°	79.2	81.4	87.2	92.3	98.9
70°	63.7	66.6	70.9	75.8	80.1
72.5°	51.3	52.5	56.1	59.7	64.1
75°	37.9	39.9	42.8	44.9	47.4
77.5°	27.2	28.4	30.1	31.8	34.2
80°	18.2	18.7	20.2	20.6	22.4
82.5°	11.0	11.4	11.7	11.9	12.6
85°	5.9	5.9	5.9	5.6	5.6
87.5°	3.4	3.4	2.9	2.4	1.7
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)