

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: P553932

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-96-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: P553932
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-LD4-1HI-35-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

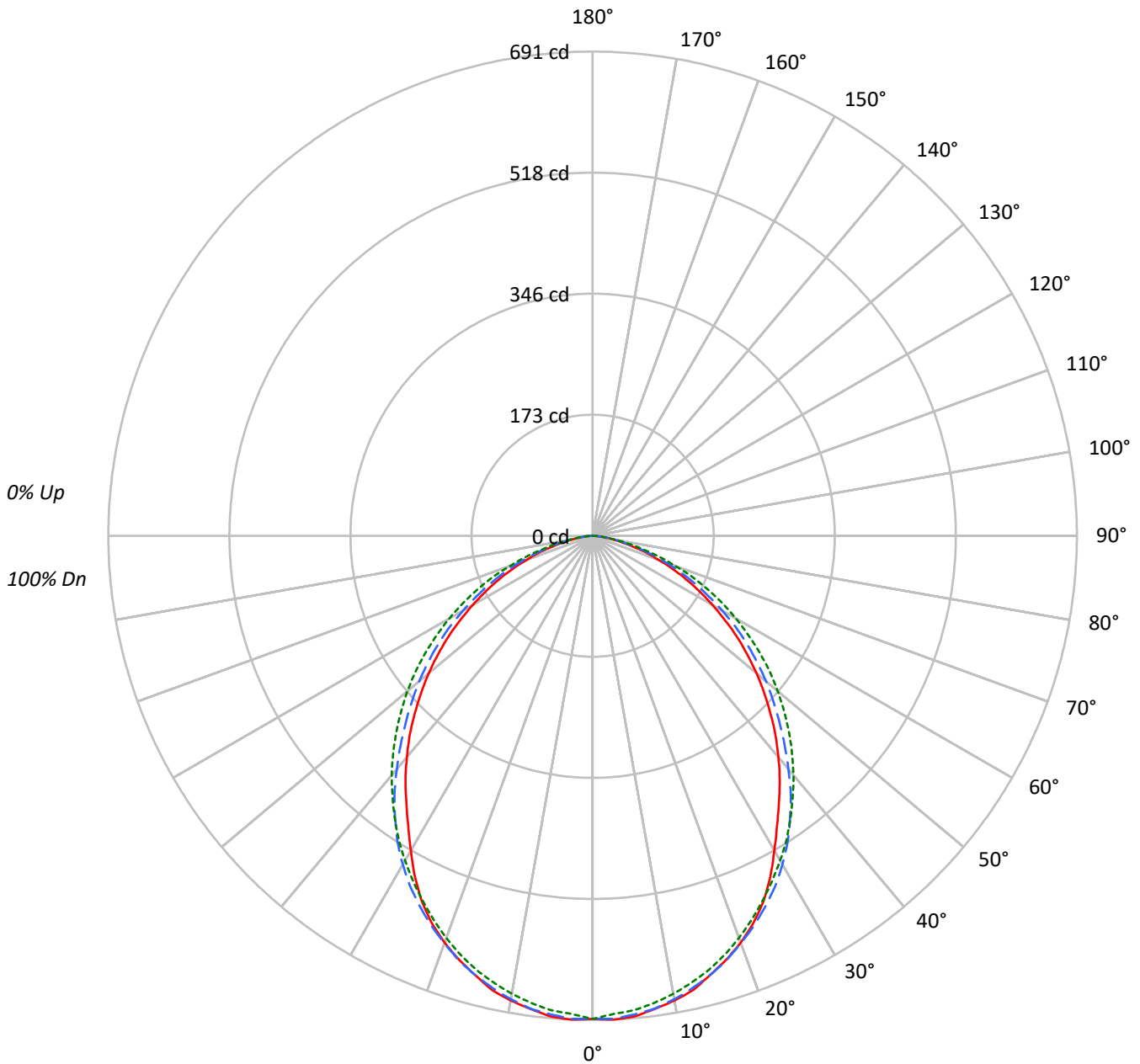
Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3710	3710	3710
5°	3720	3705	3673
10°	3681	3670	3628
15°	3615	3615	3574
20°	3539	3544	3498
25°	3422	3464	3410
30°	3222	3368	3326
35°	3045	3228	3233
40°	2897	3053	3133
45°	2732	2869	3016
50°	2557	2703	2887
55°	2358	2515	2731
60°	2124	2295	2540
65°	1875	2040	2310
70°	1563	1737	1962
75°	1229	1387	1537
80°	877	976	1085
85°	574	574	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	4.1
10°-20°	182.3	11.4
20°-30°	266.5	16.7
30°-40°	302.5	19.0
40°-50°	292.0	18.3
50°-60°	240.9	15.1
60°-70°	160.4	10.1
70°-80°	71.8	4.5
80°-90°	12.8	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°	513.7	32.2
0°-40°	816.2	51.2
0°-60°	1349.0	84.6
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	689	688	686	682	680	65
15°	649	650	649	646	641	183
25°	576	581	583	579	574	264
35°	464	470	491	494	492	290
45°	359	365	377	394	396	277
55°	251	256	268	283	291	224
65°	147	151	160	172	181	146
75°	59	62	67	70	74	65
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.4	689.4	689.4	689.4	689.4
2.5°	691.2	691.5	689.9	685.7	683.0
5°	688.6	688.3	685.7	681.9	679.8
7.5°	680.9	681.4	680.6	675.3	672.4
10°	673.5	673.7	671.6	667.4	663.9
12.5°	663.9	663.7	660.8	658.6	653.1
15°	648.8	650.4	648.8	645.9	641.4
17.5°	634.3	634.3	635.3	630.3	626.9
20°	617.9	618.7	618.7	614.7	610.7
22.5°	598.8	601.2	602.0	597.7	593.0
25°	576.3	580.8	583.4	579.2	574.2
27.5°	549.0	555.9	563.8	560.7	555.1
30°	518.5	528.6	541.9	539.2	535.2
32.5°	489.7	499.7	518.0	517.0	514.8
35°	463.5	469.8	491.3	493.9	492.1
37.5°	438.6	444.4	464.5	470.6	469.0
40°	412.3	418.7	434.6	445.5	446.0
42.5°	386.4	392.5	405.5	421.1	421.1
45°	358.9	364.9	376.9	394.1	396.2
47.5°	331.8	338.2	349.8	367.1	370.5
50°	305.4	311.2	322.8	339.5	344.8
52.5°	277.8	284.2	295.6	310.9	318.6
55°	251.3	255.6	268.0	282.8	291.1
57.5°	223.8	227.8	241.8	254.5	263.0
60°	197.3	202.3	213.2	226.2	236.0
62.5°	171.9	177.2	186.4	197.8	209.0
65°	147.2	151.2	160.2	171.6	181.4
67.5°	123.4	126.9	135.9	143.8	154.1
70°	99.3	103.8	110.4	118.1	124.7
72.5°	80.0	81.8	87.4	93.0	99.8
75°	59.1	62.2	66.7	69.9	73.9
77.5°	42.4	44.2	46.9	49.5	53.2
80°	28.3	29.1	31.5	32.0	35.0
82.5°	17.2	17.7	18.3	18.5	19.6
85°	9.3	9.3	9.3	8.7	8.7
87.5°	5.3	5.3	4.5	3.7	2.6
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)