

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: P554223

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-93-97-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: P554223
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-35-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

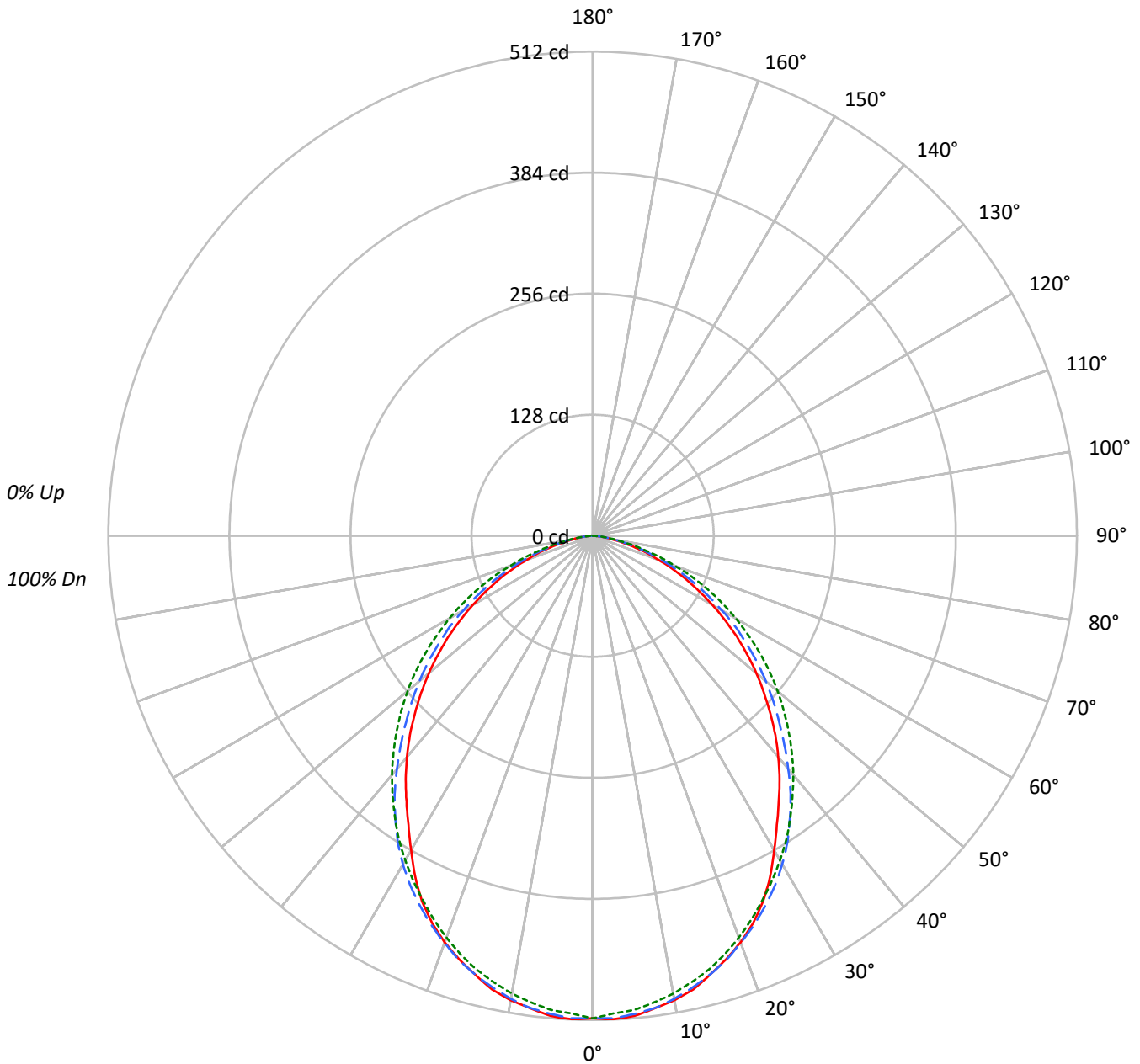
Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P554223

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-93-97-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°	2746	2746	2746
5°	2754	2742	2719
10°	2725	2717	2686
15°	2676	2676	2645
20°	2620	2623	2589
25°	2533	2565	2524
30°	2386	2493	2462
35°	2254	2390	2394
40°	2145	2260	2319
45°	2022	2124	2232
50°	1892	2001	2138
55°	1746	1862	2022
60°	1573	1699	1880
65°	1388	1510	1710
70°	1157	1287	1452
75°	909	1027	1137
80°	651	722	803
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	4.1
10°-20°	135.0	11.4
20°-30°	197.2	16.7
30°-40°	223.9	19.0
40°-50°	216.1	18.3
50°-60°	178.3	15.1
60°-70°	118.7	10.1
70°-80°	53.1	4.5
80°-90°	9.5	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°	380.3	32.2
0°-40°	604.2	51.2
0°-60°	998.6	84.6
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	510	510	508	505	503	48
15°	480	482	480	478	475	135
25°	427	430	432	429	425	195
35°	343	348	364	366	364	215
45°	266	270	279	292	293	205
55°	186	189	198	209	216	166
65°	109	112	119	127	134	108
75°	44	46	49	52	55	48
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	511.7	511.9	510.7	507.6	505.6
5°	509.7	509.5	507.6	504.8	503.3
7.5°	504.0	504.4	503.8	499.9	497.8
10°	498.6	498.8	497.2	494.0	491.5
12.5°	491.5	491.3	489.1	487.6	483.5
15°	480.3	481.5	480.3	478.2	474.8
17.5°	469.5	469.5	470.3	466.6	464.1
20°	457.4	458.0	458.0	455.0	452.1
22.5°	443.3	445.0	445.6	442.5	439.0
25°	426.6	429.9	431.9	428.8	425.0
27.5°	406.4	411.5	417.4	415.0	410.9
30°	383.9	391.3	401.1	399.2	396.2
32.5°	362.5	369.9	383.5	382.7	381.1
35°	343.1	347.8	363.7	365.6	364.3
37.5°	324.7	329.0	343.9	348.4	347.2
40°	305.3	310.0	321.7	329.8	330.1
42.5°	286.0	290.5	300.2	311.7	311.7
45°	265.6	270.2	279.0	291.7	293.3
47.5°	245.7	250.4	259.0	271.7	274.3
50°	226.0	230.4	239.0	251.3	255.3
52.5°	205.7	210.4	218.8	230.2	235.8
55°	186.1	189.2	198.4	209.4	215.5
57.5°	165.7	168.6	179.0	188.4	194.7
60°	146.1	149.8	157.8	167.4	174.7
62.5°	127.2	131.2	138.0	146.4	154.7
65°	109.0	111.9	118.6	127.0	134.3
67.5°	91.4	93.9	100.6	106.5	114.1
70°	73.5	76.9	81.8	87.4	92.3
72.5°	59.2	60.6	64.7	68.8	73.9
75°	43.7	46.1	49.4	51.8	54.7
77.5°	31.4	32.7	34.7	36.7	39.4
80°	21.0	21.6	23.3	23.7	25.9
82.5°	12.7	13.1	13.5	13.7	14.5
85°	6.9	6.9	6.9	6.5	6.5
87.5°	3.9	3.9	3.3	2.7	2.0
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)