

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: P555425

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-84-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: P555425
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-LD4-3HI-30-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

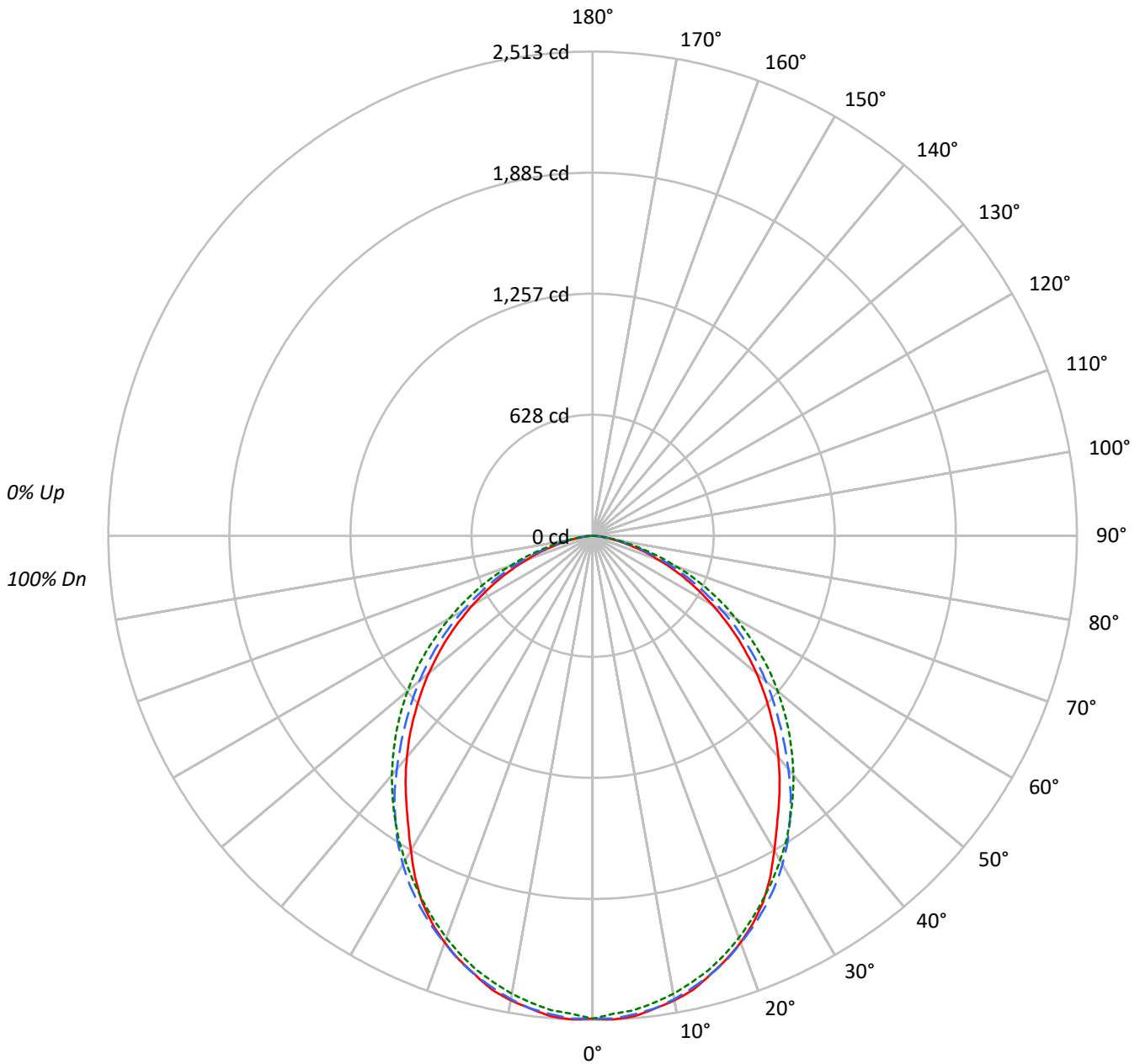
Lumens per Lamp: N/A
Luminaire Lumens: 5795.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P555425

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-84-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°	13488	13488	13488
5°	13524	13467	13352
10°	13380	13344	13191
15°	13143	13143	12993
20°	12865	12881	12716
25°	12441	12596	12396
30°	11716	12242	12092
35°	11070	11734	11753
40°	10532	11101	11391
45°	9930	10428	10963
50°	9295	9827	10496
55°	8573	9143	9928
60°	7721	8343	9234
65°	6817	7418	8399
70°	5682	6318	7136
75°	4465	5045	5585
80°	3192	3552	3939
85°	2081	2081	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	4.1
10°-20°	662.9	11.4
20°-30°	968.7	16.7
30°-40°	1099.6	19.0
40°-50°	1061.5	18.3
50°-60°	875.7	15.1
60°-70°	583.1	10.1
70°-80°	260.9	4.5
80°-90°	46.7	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°	1867.6	32.2
0°-40°	2967.2	51.2
0°-60°	4904.3	84.6
0°-90°	5795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2503	2502	2493	2479	2472	237
15°	2359	2365	2359	2348	2332	665
25°	2095	2111	2121	2106	2087	959
35°	1685	1708	1786	1796	1789	1056
45°	1305	1327	1370	1433	1440	1007
55°	914	929	974	1028	1058	816
65°	535	550	582	624	660	531
75°	215	226	243	254	269	235
85°	34	34	34	32	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2506.2	2506.2	2506.2	2506.2	2506.2
2.5°	2512.9	2513.9	2508.1	2492.7	2483.1
5°	2503.3	2502.3	2492.7	2479.2	2471.5
7.5°	2475.4	2477.3	2474.4	2455.2	2444.6
10°	2448.4	2449.4	2441.7	2426.3	2413.8
12.5°	2413.8	2412.8	2402.2	2394.5	2374.3
15°	2358.9	2364.7	2358.9	2348.3	2331.9
17.5°	2305.9	2305.9	2309.8	2291.5	2279.0
20°	2246.2	2249.1	2249.1	2234.7	2220.2
22.5°	2176.9	2185.6	2188.5	2173.1	2155.7
25°	2095.1	2111.4	2121.1	2105.7	2087.4
27.5°	1995.9	2020.9	2049.8	2038.3	2018.0
30°	1885.2	1921.8	1969.9	1960.3	1945.8
32.5°	1780.2	1816.8	1883.3	1879.4	1871.7
35°	1684.9	1708.0	1786.0	1795.6	1788.9
37.5°	1594.4	1615.6	1688.8	1710.9	1705.1
40°	1499.1	1522.2	1580.0	1619.4	1621.4
42.5°	1404.7	1426.9	1474.1	1530.9	1530.9
45°	1304.6	1326.7	1370.1	1432.7	1440.4
47.5°	1206.4	1229.5	1271.9	1334.5	1347.0
50°	1110.1	1131.3	1173.7	1234.3	1253.6
52.5°	1010.0	1033.1	1074.5	1130.3	1158.3
55°	913.7	929.1	974.4	1028.3	1058.1
57.5°	813.6	828.0	879.0	925.3	956.1
60°	717.3	735.6	775.1	822.2	857.9
62.5°	624.9	644.1	677.8	719.2	759.7
65°	535.3	549.8	582.5	623.9	659.5
67.5°	448.7	461.2	493.9	522.8	560.4
70°	361.1	377.4	401.5	429.4	453.5
72.5°	290.8	297.5	317.7	337.9	363.0
75°	214.7	226.3	242.6	254.2	268.6
77.5°	154.0	160.8	170.4	180.0	193.5
80°	103.0	105.9	114.6	116.5	127.1
82.5°	62.6	64.5	66.4	67.4	71.2
85°	33.7	33.7	33.7	31.8	31.8
87.5°	19.3	19.3	16.4	13.5	9.6
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)