

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: P555427

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-85-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: P555427
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

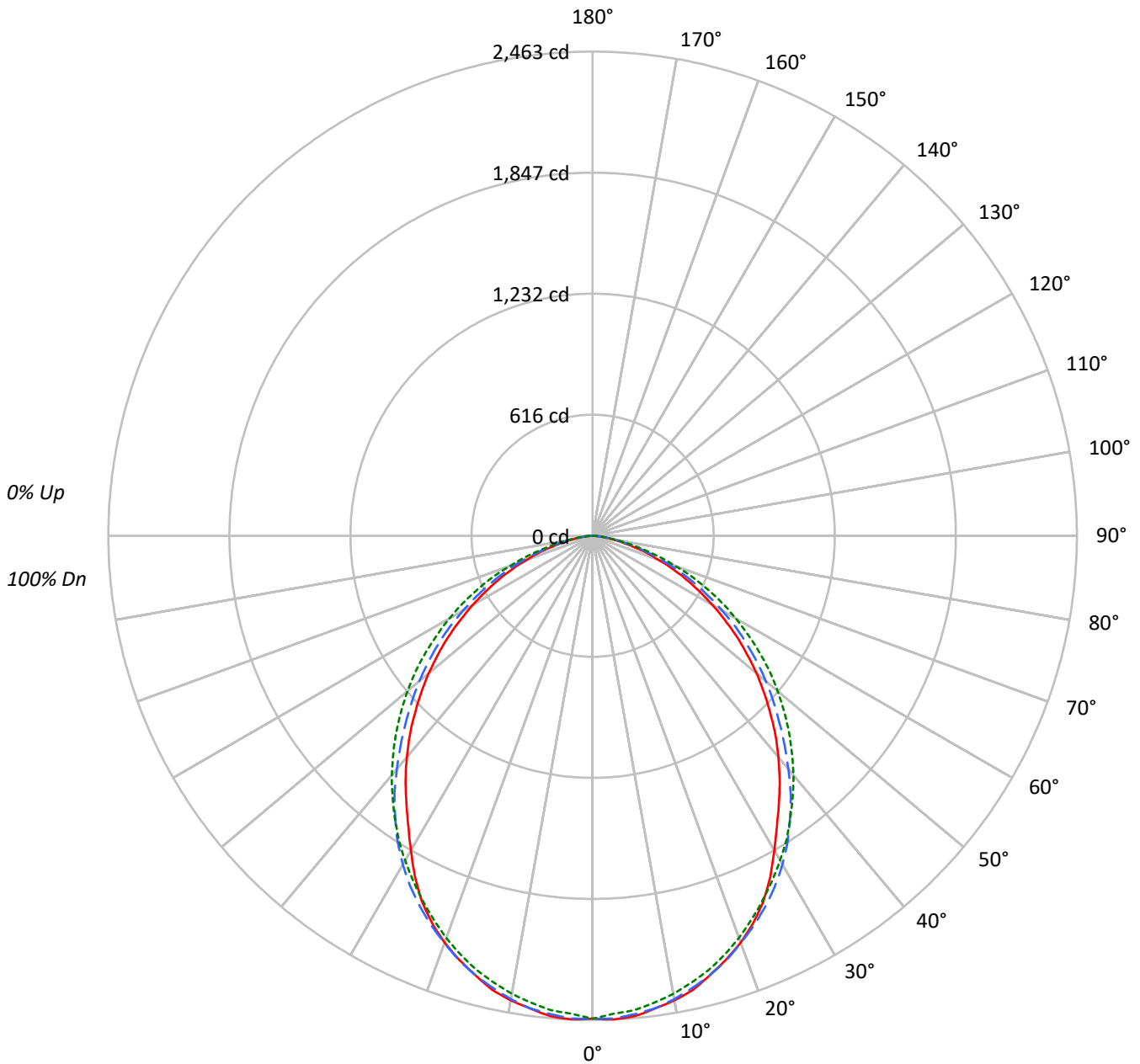
Lumens per Lamp: N/A
Luminaire Lumens: 5680.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555427

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555427

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-85-EDD

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°	13221	13221	13221
5°	13256	13199	13088
10°	13115	13079	12930
15°	12883	12883	12735
20°	12610	12626	12464
25°	12194	12346	12149
30°	11483	11999	11852
35°	10851	11502	11520
40°	10323	10880	11165
45°	9732	10221	10746
50°	9110	9632	10288
55°	8404	8961	9731
60°	7568	8177	9050
65°	6682	7270	8232
70°	5569	6192	6995
75°	4375	4945	5475
80°	3130	3481	3862
85°	2038	2038	1920



TEST NUMBER: P555427

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	4.1
10°-20°	649.7	11.4
20°-30°	949.5	16.7
30°-40°	1077.8	19.0
40°-50°	1040.4	18.3
50°-60°	858.3	15.1
60°-70°	571.5	10.1
70°-80°	255.8	4.5
80°-90°	45.7	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°	1830.5	32.2
0°-40°	2908.3	51.2
0°-60°	4807.0	84.6
0°-90°	5680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2454	2453	2443	2430	2422	232
15°	2312	2318	2312	2302	2286	652
25°	2054	2070	2079	2064	2046	940
35°	1652	1674	1751	1760	1753	1035
45°	1279	1300	1343	1404	1412	987
55°	896	911	955	1008	1037	799
65°	525	539	571	612	646	520
75°	210	222	238	249	263	230
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



TEST NUMBER: P555427

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2456.5	2456.5	2456.5	2456.5	2456.5
2.5°	2463.1	2464.0	2458.3	2443.2	2433.8
5°	2453.6	2452.7	2443.2	2430.0	2422.5
7.5°	2426.3	2428.1	2425.3	2406.4	2396.1
10°	2399.8	2400.8	2393.2	2378.1	2365.9
12.5°	2365.9	2364.9	2354.5	2347.0	2327.2
15°	2312.1	2317.7	2312.1	2301.7	2285.6
17.5°	2260.2	2260.2	2263.9	2246.0	2233.7
20°	2201.7	2204.5	2204.5	2190.3	2176.2
22.5°	2133.7	2142.2	2145.0	2129.9	2112.9
25°	2053.5	2069.5	2079.0	2063.9	2045.9
27.5°	1956.3	1980.8	2009.1	1997.8	1978.0
30°	1847.8	1883.6	1930.8	1921.4	1907.2
32.5°	1744.9	1780.8	1845.9	1842.1	1834.6
35°	1651.5	1674.1	1750.6	1760.0	1753.4
37.5°	1562.8	1583.5	1655.3	1677.0	1671.3
40°	1469.3	1492.0	1548.6	1587.3	1589.2
42.5°	1376.9	1398.6	1444.8	1500.5	1500.5
45°	1278.7	1300.4	1342.9	1404.2	1411.8
47.5°	1182.5	1205.1	1246.6	1308.0	1320.2
50°	1088.1	1108.8	1150.4	1209.8	1228.7
52.5°	989.9	1012.6	1053.2	1107.9	1135.3
55°	895.6	910.7	955.0	1007.9	1037.1
57.5°	797.4	811.6	861.6	906.9	937.1
60°	703.1	721.0	759.7	805.9	840.8
62.5°	612.5	631.3	664.4	704.9	744.6
65°	524.7	538.9	570.9	611.5	646.4
67.5°	439.8	452.0	484.1	512.4	549.2
70°	353.9	369.9	393.5	420.9	444.5
72.5°	285.0	291.6	311.4	331.2	355.8
75°	210.4	221.8	237.8	249.1	263.3
77.5°	151.0	157.6	167.0	176.5	189.7
80°	101.0	103.8	112.3	114.2	124.6
82.5°	61.3	63.2	65.1	66.1	69.8
85°	33.0	33.0	33.0	31.1	31.1
87.5°	18.9	18.9	16.0	13.2	9.4
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)