

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: P555501

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-96-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: P555501
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-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

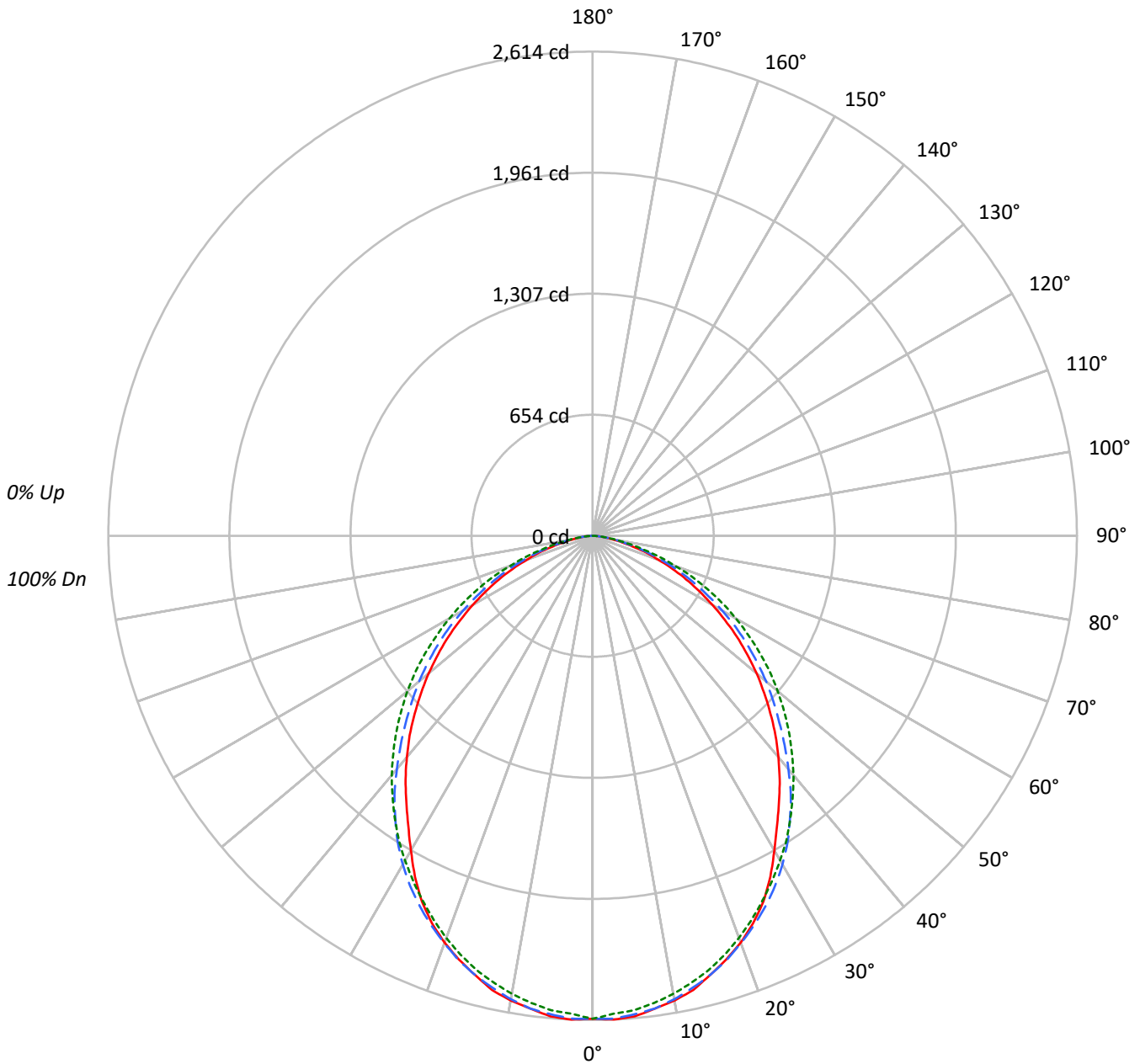
Lumens per Lamp: N/A
Luminaire Lumens: 6029.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555501

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555501

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-96-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°	14033	14033	14033
5°	14070	14011	13891
10°	13921	13883	13724
15°	13674	13674	13518
20°	13384	13401	13230
25°	12944	13104	12896
30°	12189	12736	12581
35°	11517	12208	12228
40°	10957	11549	11851
45°	10331	10849	11405
50°	9670	10224	10920
55°	8920	9512	10330
60°	8033	8680	9607
65°	7092	7717	8739
70°	5910	6573	7424
75°	4645	5248	5812
80°	3322	3694	4097
85°	2167	2167	2044



TEST NUMBER: P555501

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	4.1
10°-20°	689.7	11.4
20°-30°	1007.8	16.7
30°-40°	1144.0	19.0
40°-50°	1104.3	18.3
50°-60°	911.0	15.1
60°-70°	606.7	10.1
70°-80°	271.5	4.5
80°-90°	48.6	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°	1943.0	32.2
0°-40°	3087.0	51.2
0°-60°	5102.3	84.6
0°-90°	6029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2607	2607	2607	2607	2607	
5°	2604	2603	2593	2579	2571	247
15°	2454	2460	2454	2443	2426	692
25°	2180	2197	2207	2191	2172	998
35°	1753	1777	1858	1868	1861	1098
45°	1357	1380	1425	1490	1498	1047
55°	951	967	1014	1070	1101	848
65°	557	572	606	649	686	552
75°	223	235	252	264	280	244
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



TEST NUMBER: P555501

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2607.4	2607.4	2607.4	2607.4	2607.4
2.5°	2614.4	2615.4	2609.4	2593.4	2583.3
5°	2604.4	2603.4	2593.4	2579.3	2571.3
7.5°	2575.3	2577.3	2574.3	2554.3	2543.3
10°	2547.3	2548.3	2540.3	2524.2	2511.2
12.5°	2511.2	2510.2	2499.2	2491.2	2470.2
15°	2454.1	2460.1	2454.1	2443.1	2426.1
17.5°	2399.0	2399.0	2403.0	2384.0	2371.0
20°	2336.9	2339.9	2339.9	2324.9	2309.9
22.5°	2264.8	2273.8	2276.8	2260.8	2242.8
25°	2179.7	2196.7	2206.7	2190.7	2171.7
27.5°	2076.5	2102.5	2132.6	2120.6	2099.5
30°	1961.3	1999.4	2049.4	2039.4	2024.4
32.5°	1852.1	1890.2	1959.3	1955.3	1947.3
35°	1752.9	1777.0	1858.1	1868.1	1861.1
37.5°	1658.8	1680.8	1757.0	1780.0	1774.0
40°	1559.6	1583.7	1643.8	1684.8	1686.8
42.5°	1461.5	1484.5	1533.6	1592.7	1592.7
45°	1357.3	1380.3	1425.4	1490.5	1498.5
47.5°	1255.1	1279.2	1323.2	1388.3	1401.4
50°	1154.9	1177.0	1221.1	1284.2	1304.2
52.5°	1050.8	1074.8	1117.9	1176.0	1205.0
55°	950.6	966.6	1013.7	1069.8	1100.9
57.5°	846.4	861.4	914.5	962.6	994.7
60°	746.3	765.3	806.4	855.4	892.5
62.5°	650.1	670.1	705.2	748.3	790.3
65°	556.9	572.0	606.0	649.1	686.2
67.5°	466.8	479.8	513.9	543.9	583.0
70°	375.6	392.7	417.7	446.8	471.8
72.5°	302.5	309.5	330.6	351.6	377.6
75°	223.4	235.4	252.4	264.4	279.5
77.5°	160.3	167.3	177.3	187.3	201.3
80°	107.2	110.2	119.2	121.2	132.2
82.5°	65.1	67.1	69.1	70.1	74.1
85°	35.1	35.1	35.1	33.1	33.1
87.5°	20.0	20.0	17.0	14.0	10.0
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)