

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: P555405

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-96-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: P555405
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

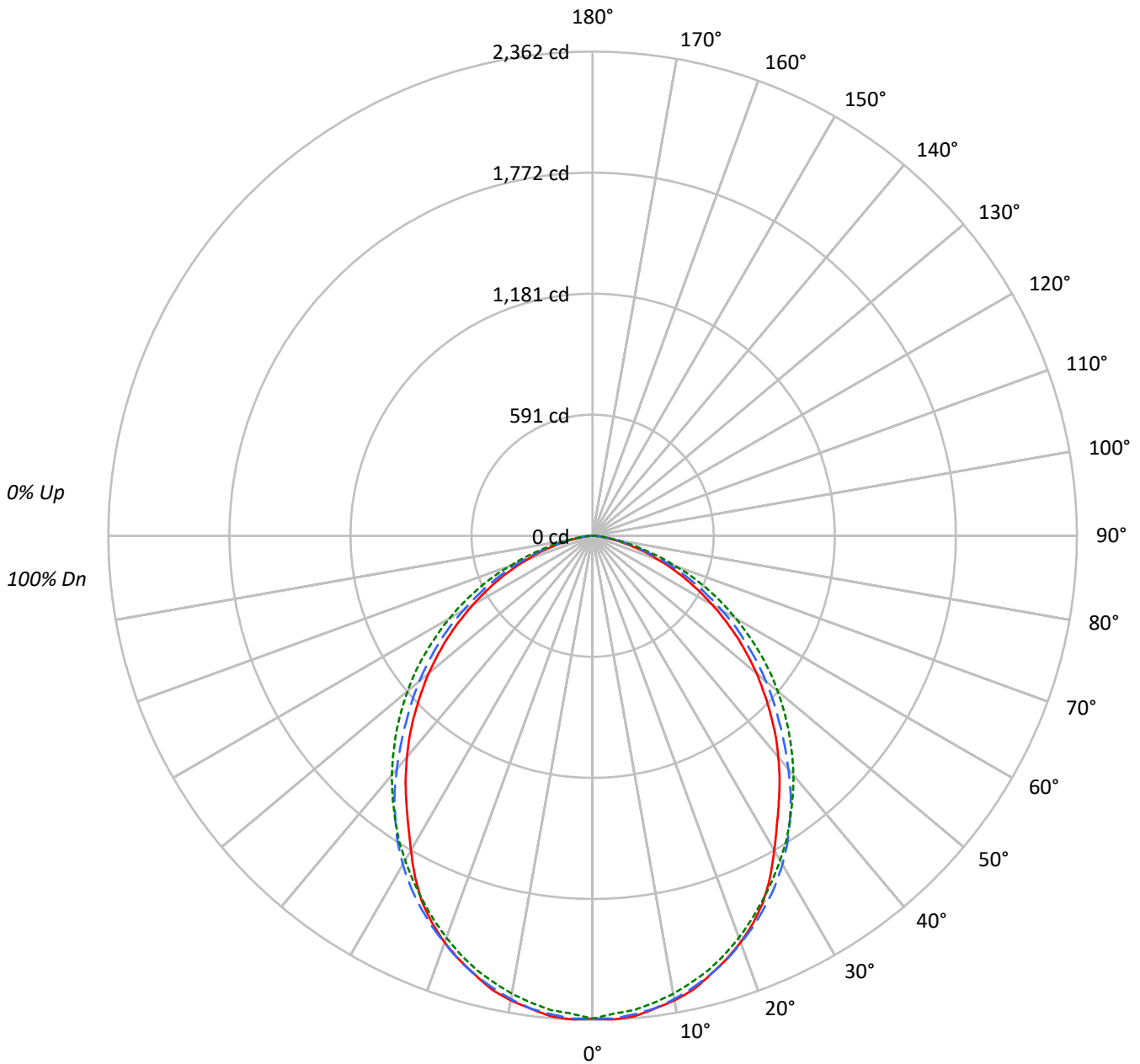
Lumens per Lamp: N/A
Luminaire Lumens: 5446.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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: P555405

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555405

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-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°	12676	12676	12676
5°	12709	12656	12548
10°	12575	12540	12397
15°	12352	12352	12211
20°	12090	12106	11950
25°	11692	11837	11649
30°	11010	11505	11364
35°	10403	11027	11046
40°	9898	10432	10705
45°	9331	9800	10303
50°	8735	9235	9864
55°	8057	8592	9331
60°	7256	7840	8678
65°	6407	6971	7893
70°	5339	5937	6707
75°	4196	4741	5248
80°	3000	3338	3701
85°	1958	1958	1846



TEST NUMBER: P555405

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	4.1
10°-20°	623.0	11.4
20°-30°	910.4	16.7
30°-40°	1033.4	19.0
40°-50°	997.6	18.3
50°-60°	822.9	15.1
60°-70°	548.0	10.1
70°-80°	245.2	4.5
80°-90°	43.9	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°	1755.1	32.2
0°-40°	2788.5	51.2
0°-60°	4608.9	84.6
0°-90°	5446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2355	2355	2355	2355	2355	
5°	2352	2352	2343	2330	2323	223
15°	2217	2222	2217	2207	2192	625
25°	1969	1984	1993	1979	1962	902
35°	1583	1605	1678	1688	1681	992
45°	1226	1247	1288	1346	1354	946
55°	859	873	916	966	994	766
65°	503	517	547	586	620	499
75°	202	213	228	239	252	221
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



TEST NUMBER: P555405

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2355.3	2355.3	2355.3	2355.3	2355.3
2.5°	2361.6	2362.5	2357.1	2342.6	2333.5
5°	2352.5	2351.6	2342.6	2329.9	2322.7
7.5°	2326.3	2328.1	2325.4	2307.3	2297.3
10°	2301.0	2301.9	2294.6	2280.2	2268.4
12.5°	2268.4	2267.5	2257.5	2250.3	2231.3
15°	2216.8	2222.2	2216.8	2206.9	2191.5
17.5°	2167.1	2167.1	2170.7	2153.5	2141.7
20°	2111.0	2113.7	2113.7	2100.1	2086.5
22.5°	2045.8	2053.9	2056.7	2042.2	2025.9
25°	1968.9	1984.3	1993.3	1978.8	1961.7
27.5°	1875.7	1899.2	1926.4	1915.5	1896.5
30°	1771.6	1806.0	1851.3	1842.2	1828.6
32.5°	1673.0	1707.4	1769.8	1766.2	1759.0
35°	1583.4	1605.2	1678.4	1687.5	1681.2
37.5°	1498.4	1518.3	1587.1	1607.9	1602.4
40°	1408.8	1430.5	1484.8	1521.9	1523.7
42.5°	1320.1	1340.9	1385.3	1438.7	1438.7
45°	1226.0	1246.8	1287.6	1346.4	1353.6
47.5°	1133.7	1155.5	1195.3	1254.1	1265.8
50°	1043.3	1063.2	1103.0	1160.0	1178.1
52.5°	949.2	970.9	1009.8	1062.3	1088.5
55°	858.7	873.2	915.7	966.4	994.4
57.5°	764.6	778.1	826.1	869.5	898.5
60°	674.1	691.3	728.4	772.7	806.2
62.5°	587.2	605.3	637.0	675.9	713.9
65°	503.1	516.7	547.4	586.3	619.8
67.5°	421.6	433.4	464.2	491.3	526.6
70°	339.3	354.7	377.3	403.6	426.2
72.5°	273.3	279.6	298.6	317.6	341.1
75°	201.8	212.6	228.0	238.9	252.4
77.5°	144.8	151.1	160.2	169.2	181.9
80°	96.8	99.5	107.7	109.5	119.4
82.5°	58.8	60.6	62.4	63.3	67.0
85°	31.7	31.7	31.7	29.9	29.9
87.5°	18.1	18.1	15.4	12.7	9.0
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)