

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: P555942

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-87-EDD-90**

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: P555942
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-LD4-3STD-30-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

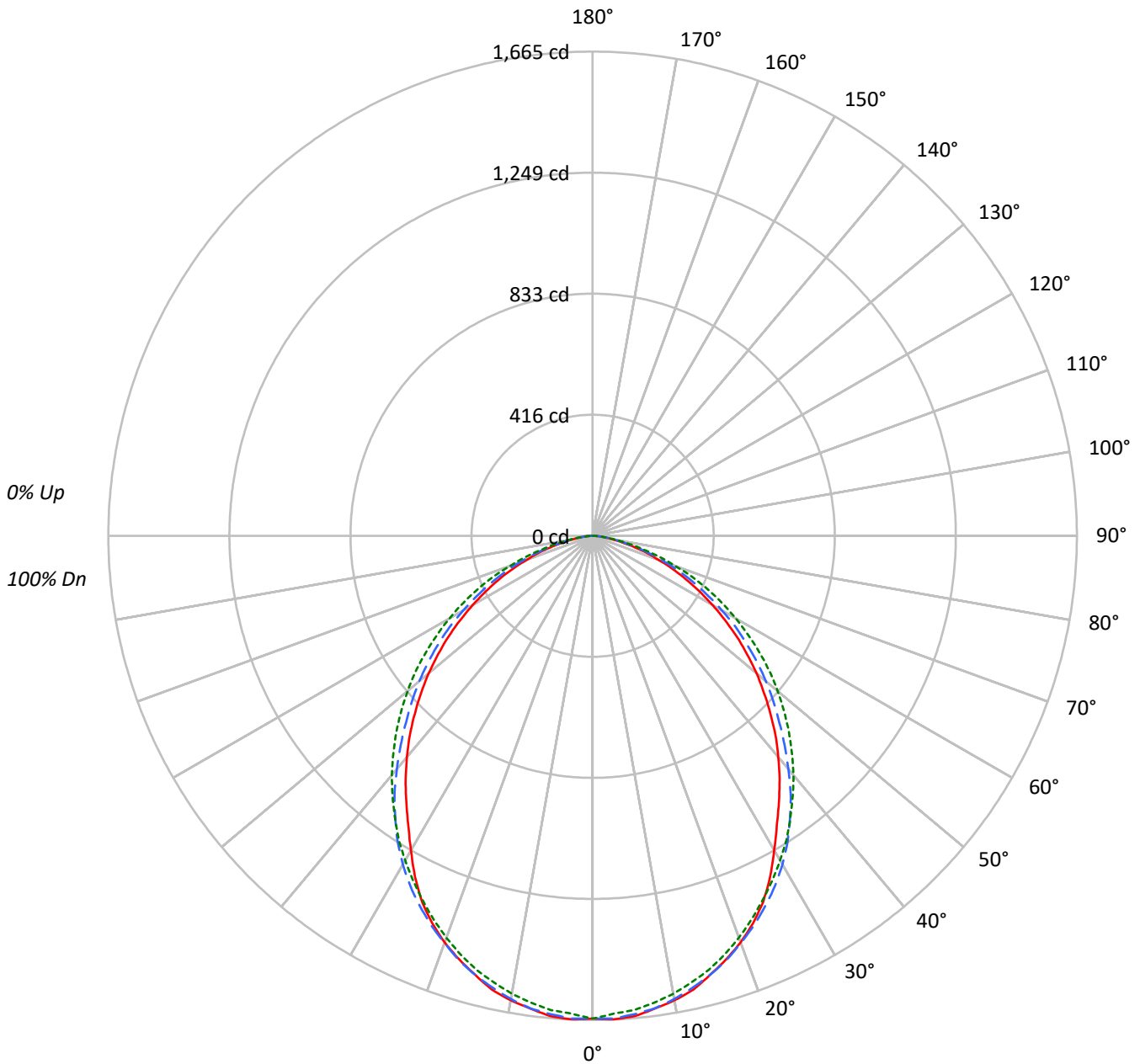
Lumens per Lamp: N/A
Luminaire Lumens: 3839.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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: P555942

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-93-87-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8936	8936	8936
5°	8960	8921	8846
10°	8864	8840	8739
15°	8707	8707	8607
20°	8523	8534	8424
25°	8242	8344	8212
30°	7761	8110	8011
35°	7334	7774	7786
40°	6977	7354	7546
45°	6578	6908	7263
50°	6157	6510	6954
55°	5680	6057	6578
60°	5115	5527	6117
65°	4516	4914	5564
70°	3764	4186	4727
75°	2957	3342	3701
80°	2114	2352	2610
85°	1377	1377	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	4.1
10°-20°	439.1	11.4
20°-30°	641.7	16.7
30°-40°	728.4	19.0
40°-50°	703.2	18.3
50°-60°	580.1	15.1
60°-70°	386.3	10.1
70°-80°	172.9	4.5
80°-90°	30.9	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°	1237.2	32.2
0°-40°	1965.6	51.2
0°-60°	3248.9	84.6
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1658	1658	1651	1642	1637	157
15°	1563	1566	1563	1556	1545	441
25°	1388	1399	1405	1395	1383	636
35°	1116	1132	1183	1190	1185	699
45°	864	879	908	949	954	667
55°	605	616	646	681	701	540
65°	355	364	386	413	437	352
75°	142	150	161	168	178	156
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.3	1660.3	1660.3	1660.3	1660.3
2.5°	1664.7	1665.4	1661.5	1651.3	1645.0
5°	1658.4	1657.7	1651.3	1642.4	1637.3
7.5°	1639.9	1641.1	1639.2	1626.5	1619.4
10°	1622.0	1622.6	1617.5	1607.3	1599.0
12.5°	1599.0	1598.4	1591.4	1586.3	1572.9
15°	1562.7	1566.5	1562.7	1555.7	1544.8
17.5°	1527.6	1527.6	1530.2	1518.0	1509.7
20°	1488.1	1490.0	1490.0	1480.4	1470.8
22.5°	1442.1	1447.9	1449.8	1439.6	1428.1
25°	1387.9	1398.8	1405.1	1394.9	1382.8
27.5°	1322.2	1338.8	1357.9	1350.3	1336.9
30°	1248.9	1273.1	1305.0	1298.6	1289.1
32.5°	1179.3	1203.6	1247.6	1245.0	1239.9
35°	1116.2	1131.5	1183.2	1189.6	1185.1
37.5°	1056.2	1070.3	1118.8	1133.4	1129.6
40°	993.1	1008.4	1046.7	1072.8	1074.1
42.5°	930.6	945.3	976.5	1014.1	1014.1
45°	864.3	878.9	907.6	949.1	954.2
47.5°	799.2	814.5	842.6	884.0	892.3
50°	735.4	749.4	777.5	817.7	830.5
52.5°	669.1	684.4	711.8	748.8	767.3
55°	605.3	615.5	645.5	681.2	701.0
57.5°	539.0	548.5	582.3	613.0	633.4
60°	475.2	487.3	513.5	544.7	568.3
62.5°	414.0	426.7	449.0	476.5	503.2
65°	354.6	364.2	385.9	413.3	436.9
67.5°	297.2	305.5	327.2	346.3	371.2
70°	239.2	250.0	266.0	284.5	300.4
72.5°	192.6	197.1	210.5	223.9	240.5
75°	142.2	149.9	160.7	168.4	178.0
77.5°	102.1	106.5	112.9	119.3	128.2
80°	68.2	70.2	75.9	77.2	84.2
82.5°	41.5	42.7	44.0	44.6	47.2
85°	22.3	22.3	22.3	21.0	21.0
87.5°	12.8	12.8	10.8	8.9	6.4
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)