

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: P555930

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-94-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: P555930
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-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

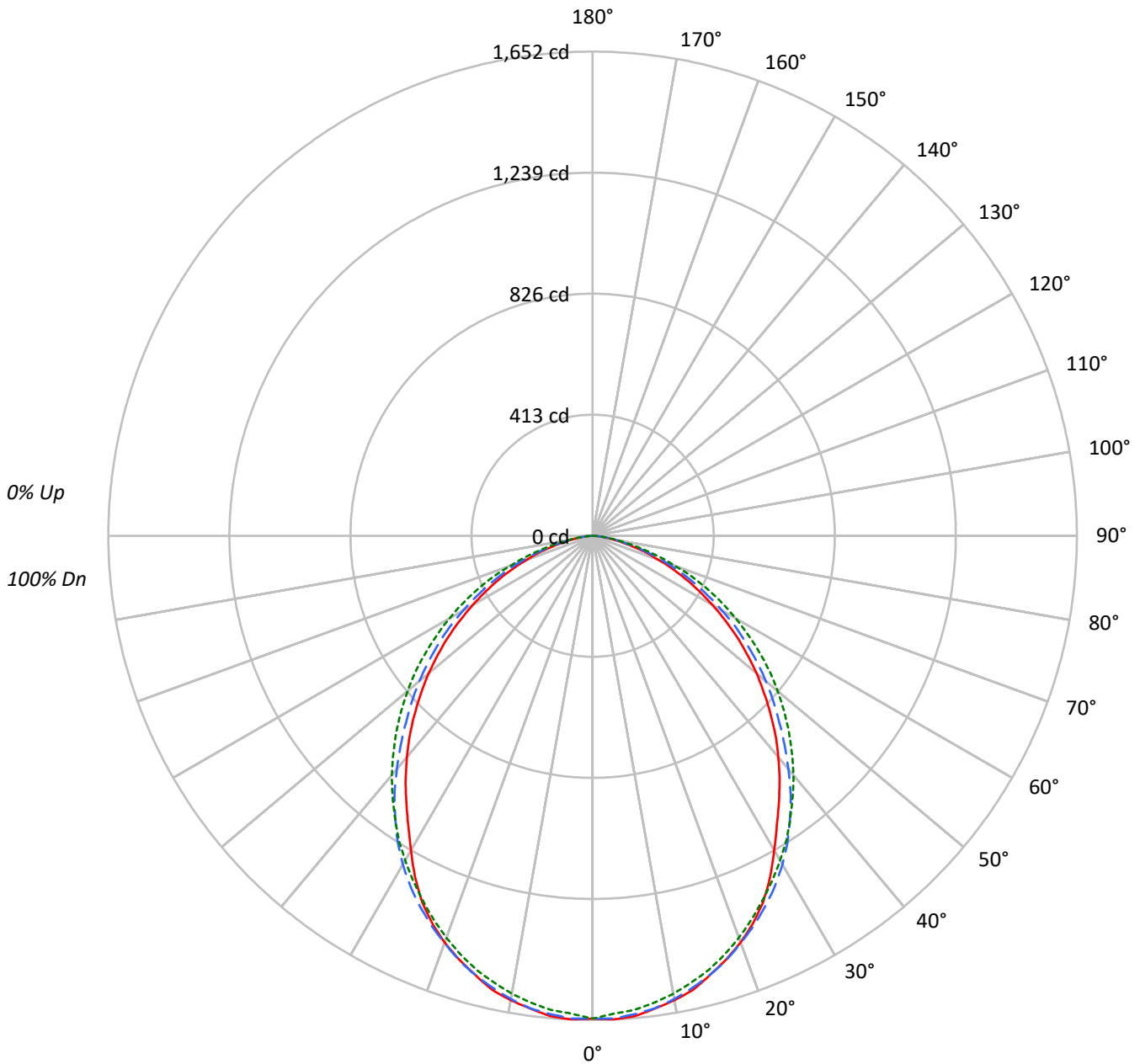
Lumens per Lamp: N/A
Luminaire Lumens: 3809.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555930

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-94-EDD-90

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°	8866	8866	8866
5°	8889	8851	8776
10°	8795	8771	8670
15°	8639	8639	8540
20°	8456	8467	8358
25°	8178	8279	8147
30°	7700	8047	7948
35°	7276	7713	7725
40°	6922	7296	7487
45°	6527	6854	7206
50°	6110	6459	6899
55°	5636	6009	6526
60°	5075	5483	6070
65°	4481	4876	5521
70°	3734	4153	4691
75°	2934	3317	3672
80°	2098	2334	2588
85°	1365	1365	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	4.1
10°-20°	435.7	11.4
20°-30°	636.7	16.7
30°-40°	722.7	19.0
40°-50°	697.7	18.3
50°-60°	575.6	15.1
60°-70°	383.3	10.1
70°-80°	171.5	4.5
80°-90°	30.7	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°	1227.5	32.2
0°-40°	1950.3	51.2
0°-60°	3223.5	84.6
0°-90°	3809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1645	1645	1638	1630	1624	156
15°	1550	1554	1550	1544	1533	437
25°	1377	1388	1394	1384	1372	631
35°	1108	1123	1174	1180	1176	694
45°	858	872	900	942	947	662
55°	601	611	640	676	696	536
65°	352	361	383	410	434	349
75°	141	149	160	167	177	154
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°	1647.3	1647.3	1647.3	1647.3	1647.3
2.5°	1651.7	1652.4	1648.6	1638.4	1632.1
5°	1645.4	1644.8	1638.4	1629.6	1624.5
7.5°	1627.0	1628.3	1626.4	1613.8	1606.8
10°	1609.3	1610.0	1604.9	1594.8	1586.5
12.5°	1586.5	1585.9	1578.9	1573.9	1560.6
15°	1550.5	1554.3	1550.5	1543.5	1532.7
17.5°	1515.7	1515.7	1518.2	1506.2	1497.9
20°	1476.4	1478.3	1478.3	1468.8	1459.3
22.5°	1430.9	1436.6	1438.5	1428.3	1416.9
25°	1377.1	1387.8	1394.2	1384.0	1372.0
27.5°	1311.9	1328.3	1347.3	1339.7	1326.4
30°	1239.1	1263.2	1294.8	1288.5	1279.0
32.5°	1170.1	1194.2	1237.8	1235.3	1230.2
35°	1107.5	1122.7	1173.9	1180.3	1175.8
37.5°	1048.0	1061.9	1110.0	1124.6	1120.8
40°	985.3	1000.5	1038.5	1064.4	1065.7
42.5°	923.3	937.9	968.9	1006.2	1006.2
45°	857.5	872.1	900.5	941.7	946.7
47.5°	793.0	808.1	836.0	877.1	885.3
50°	729.7	743.6	771.4	811.3	824.0
52.5°	663.9	679.0	706.3	743.0	761.3
55°	600.6	610.7	640.4	675.9	695.5
57.5°	534.8	544.2	577.8	608.2	628.4
60°	471.5	483.5	509.4	540.4	563.9
62.5°	410.7	423.4	445.5	472.7	499.3
65°	351.9	361.4	382.9	410.1	433.5
67.5°	294.9	303.1	324.6	343.6	368.3
70°	237.3	248.1	263.9	282.2	298.1
72.5°	191.1	195.5	208.8	222.1	238.6
75°	141.1	148.7	159.5	167.1	176.6
77.5°	101.3	105.7	112.0	118.3	127.2
80°	67.7	69.6	75.3	76.6	83.5
82.5°	41.1	42.4	43.7	44.3	46.8
85°	22.1	22.1	22.1	20.9	20.9
87.5°	12.7	12.7	10.8	8.9	6.3
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)