

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: P554659

Luminaire Tested: **FUSL-12-2-LD4-2HI-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: P554659
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-LD4-2HI-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 LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

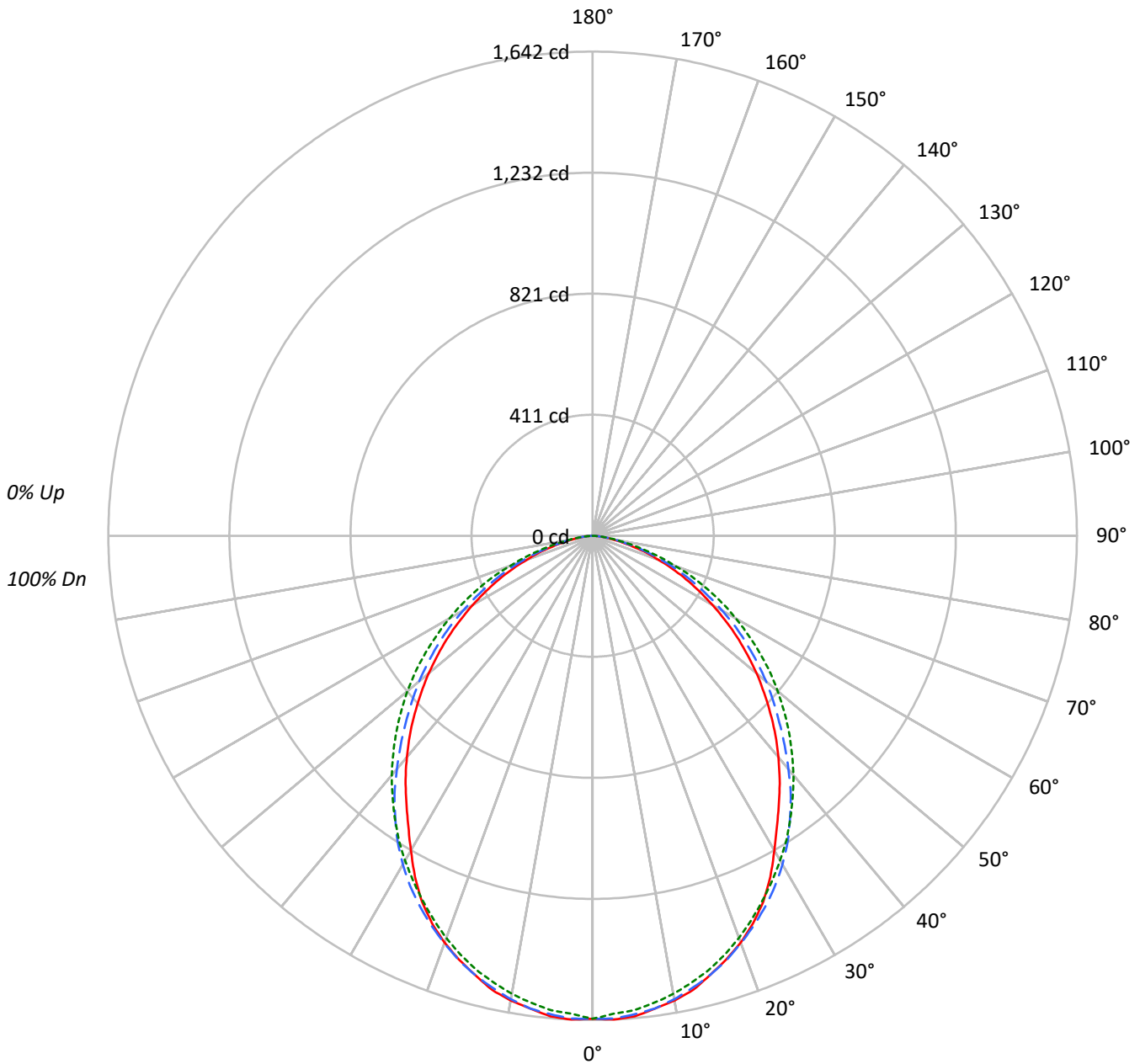
Lumens per Lamp: N/A
Luminaire Lumens: 3787.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

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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°	8815	8815	8815
5°	8838	8801	8726
10°	8744	8720	8620
15°	8589	8589	8491
20°	8407	8418	8310
25°	8130	8231	8100
30°	7656	8000	7902
35°	7234	7668	7681
40°	6882	7254	7444
45°	6489	6814	7164
50°	6074	6422	6859
55°	5603	5974	6488
60°	5045	5452	6034
65°	4455	4848	5489
70°	3712	4129	4663
75°	2917	3298	3649
80°	2086	2321	2576
85°	1359	1359	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	4.1
10°-20°	433.2	11.4
20°-30°	633.0	16.7
30°-40°	718.6	19.0
40°-50°	693.7	18.3
50°-60°	572.2	15.1
60°-70°	381.1	10.1
70°-80°	170.5	4.5
80°-90°	30.5	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°	1220.4	32.2
0°-40°	1939.0	51.2
0°-60°	3204.9	84.6
0°-90°	3787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1636	1635	1629	1620	1615	155
15°	1542	1545	1542	1535	1524	435
25°	1369	1380	1386	1376	1364	627
35°	1101	1116	1167	1173	1169	690
45°	853	867	895	936	941	658
55°	597	607	637	672	692	533
65°	350	359	381	408	431	347
75°	140	148	159	166	176	153
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°	1637.8	1637.8	1637.8	1637.8	1637.8
2.5°	1642.2	1642.8	1639.0	1629.0	1622.7
5°	1635.9	1635.3	1629.0	1620.2	1615.1
7.5°	1617.6	1618.9	1617.0	1604.4	1597.5
10°	1600.0	1600.7	1595.6	1585.6	1577.4
12.5°	1577.4	1576.7	1569.8	1564.8	1551.6
15°	1541.5	1545.3	1541.5	1534.6	1523.9
17.5°	1506.9	1506.9	1509.4	1497.5	1489.3
20°	1467.9	1469.8	1469.8	1460.3	1450.9
22.5°	1422.6	1428.3	1430.1	1420.1	1408.8
25°	1369.1	1379.8	1386.1	1376.0	1364.1
27.5°	1304.3	1320.7	1339.5	1332.0	1318.8
30°	1232.0	1255.9	1287.3	1281.0	1271.6
32.5°	1163.4	1187.3	1230.7	1228.2	1223.1
35°	1101.1	1116.2	1167.1	1173.4	1169.0
37.5°	1041.9	1055.8	1103.6	1118.1	1114.3
40°	979.6	994.7	1032.5	1058.3	1059.6
42.5°	918.0	932.5	963.3	1000.4	1000.4
45°	852.6	867.0	895.3	936.2	941.3
47.5°	788.4	803.5	831.2	872.1	880.2
50°	725.5	739.3	767.0	806.6	819.2
52.5°	660.0	675.1	702.2	738.7	756.9
55°	597.1	607.2	636.7	672.0	691.5
57.5°	531.7	541.1	574.4	604.7	624.8
60°	468.7	480.7	506.5	537.3	560.6
62.5°	408.3	420.9	442.9	470.0	496.4
65°	349.8	359.3	380.7	407.7	431.0
67.5°	293.2	301.4	322.8	341.6	366.2
70°	235.9	246.6	262.4	280.6	296.3
72.5°	190.0	194.4	207.6	220.8	237.2
75°	140.3	147.9	158.6	166.1	175.5
77.5°	100.7	105.1	111.4	117.7	126.5
80°	67.3	69.2	74.9	76.1	83.1
82.5°	40.9	42.2	43.4	44.0	46.6
85°	22.0	22.0	22.0	20.8	20.8
87.5°	12.6	12.6	10.7	8.8	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)