

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: P554851

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-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: P554851
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

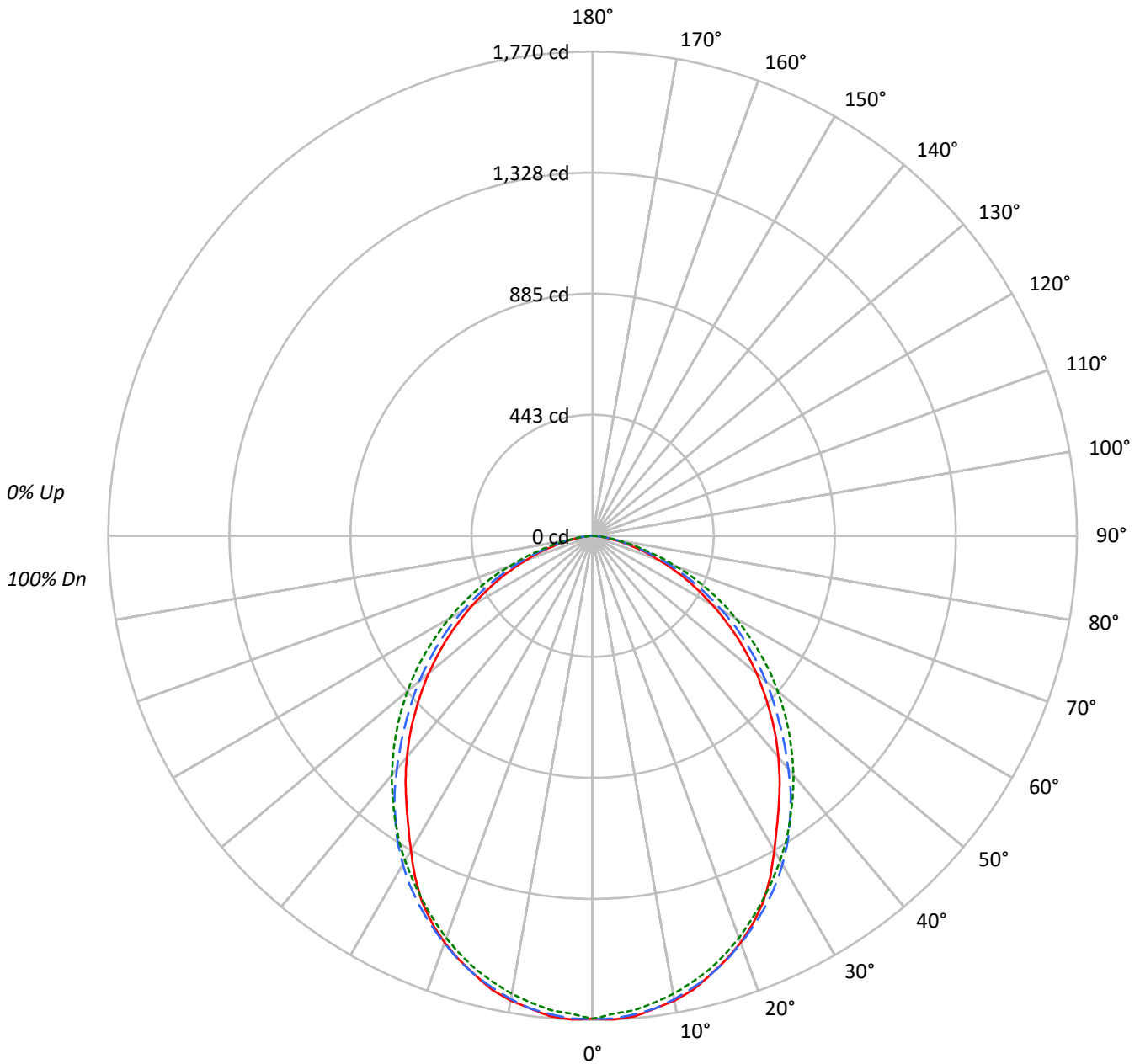
Lumens per Lamp: N/A
Luminaire Lumens: 4082.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9501	9501	9501
5°	9526	9486	9405
10°	9425	9399	9292
15°	9258	9258	9152
20°	9062	9074	8957
25°	8764	8872	8731
30°	8252	8623	8518
35°	7798	8266	8279
40°	7419	7819	8024
45°	6995	7346	7722
50°	6548	6922	7393
55°	6039	6440	6993
60°	5439	5877	6505
65°	4802	5225	5917
70°	4002	4450	5026
75°	3144	3554	3934
80°	2250	2501	2774
85°	1463	1463	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	4.1
10°-20°	466.9	11.4
20°-30°	682.4	16.7
30°-40°	774.6	19.0
40°-50°	747.7	18.3
50°-60°	616.8	15.1
60°-70°	410.8	10.1
70°-80°	183.8	4.5
80°-90°	32.9	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°	1315.5	32.2
0°-40°	2090.1	51.2
0°-60°	3454.6	84.6
0°-90°	4082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1763	1763	1756	1746	1741	167
15°	1662	1666	1662	1654	1643	468
25°	1476	1487	1494	1483	1470	676
35°	1187	1203	1258	1265	1260	744
45°	919	935	965	1009	1015	709
55°	644	654	686	724	745	574
65°	377	387	410	440	465	374
75°	151	159	171	179	189	165
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765.4	1765.4	1765.4	1765.4	1765.4
2.5°	1770.1	1770.8	1766.7	1755.9	1749.1
5°	1763.3	1762.6	1755.9	1746.4	1740.9
7.5°	1743.7	1745.0	1743.0	1729.4	1722.0
10°	1724.7	1725.3	1719.9	1709.1	1700.3
12.5°	1700.3	1699.6	1692.1	1686.7	1672.4
15°	1661.6	1665.7	1661.6	1654.1	1642.6
17.5°	1624.3	1624.3	1627.0	1614.1	1605.3
20°	1582.2	1584.3	1584.3	1574.1	1563.9
22.5°	1533.4	1539.5	1541.6	1530.7	1518.5
25°	1475.8	1487.3	1494.1	1483.2	1470.3
27.5°	1405.9	1423.5	1443.9	1435.8	1421.5
30°	1327.9	1353.7	1387.6	1380.8	1370.6
32.5°	1254.0	1279.8	1326.6	1323.9	1318.4
35°	1186.9	1203.1	1258.1	1264.8	1260.1
37.5°	1123.1	1138.0	1189.6	1205.2	1201.1
40°	1056.0	1072.2	1112.9	1140.7	1142.1
42.5°	989.5	1005.1	1038.3	1078.3	1078.3
45°	919.0	934.6	965.1	1009.2	1014.6
47.5°	849.8	866.1	895.9	940.0	948.8
50°	782.0	796.9	826.7	869.5	883.0
52.5°	711.4	727.7	756.9	796.2	815.9
55°	643.6	654.5	686.3	724.3	745.3
57.5°	573.1	583.3	619.2	651.8	673.5
60°	505.3	518.1	546.0	579.2	604.3
62.5°	440.2	453.7	477.5	506.6	535.1
65°	377.1	387.3	410.3	439.5	464.6
67.5°	316.0	324.9	347.9	368.3	394.7
70°	254.3	265.9	282.8	302.5	319.4
72.5°	204.8	209.6	223.8	238.0	255.7
75°	151.2	159.4	170.9	179.0	189.2
77.5°	108.5	113.3	120.0	126.8	136.3
80°	72.6	74.6	80.7	82.1	89.5
82.5°	44.1	45.4	46.8	47.5	50.2
85°	23.7	23.7	23.7	22.4	22.4
87.5°	13.6	13.6	11.5	9.5	6.8
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)