

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: P554861

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-96-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: P554861
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

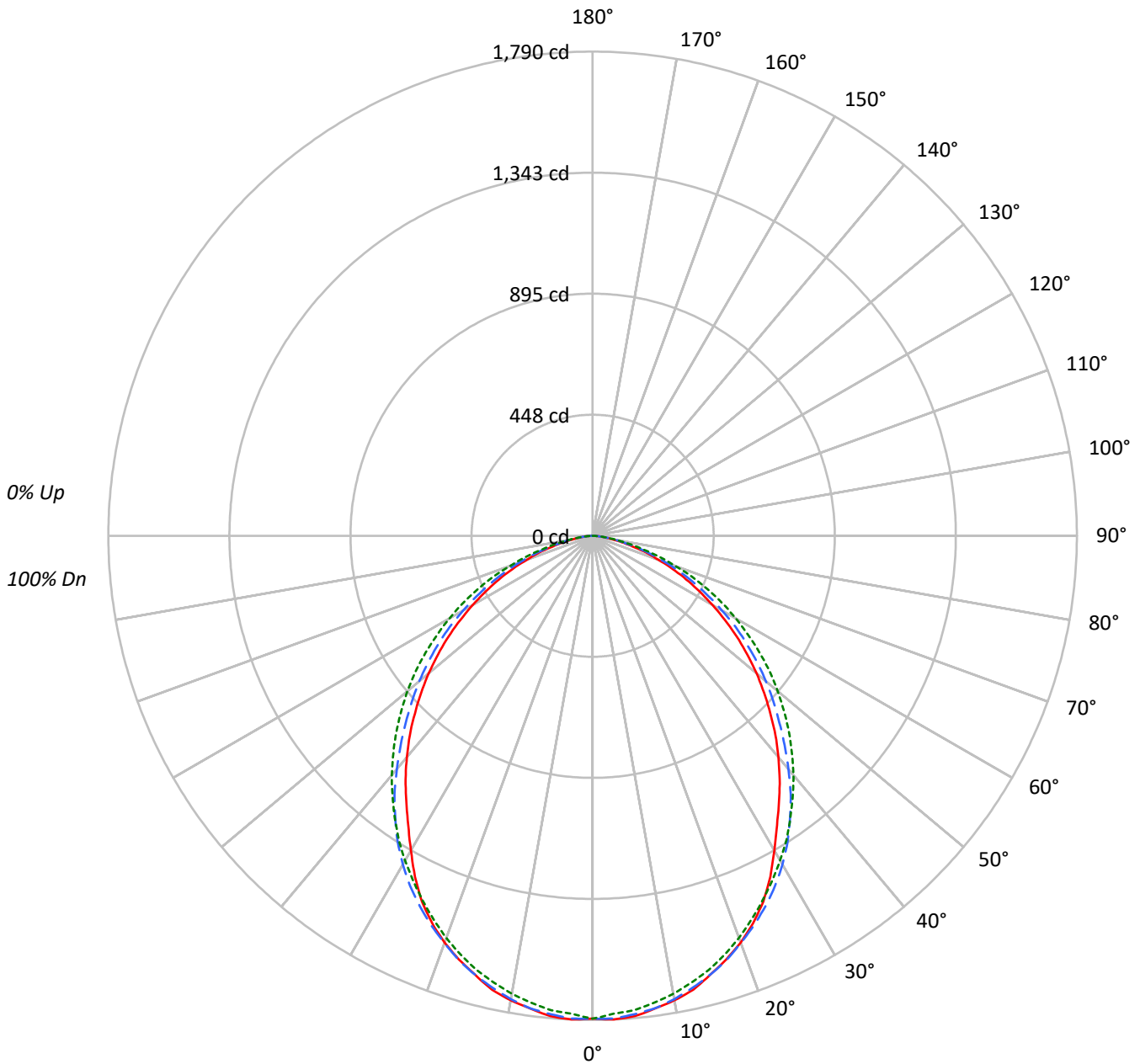
Lumens per Lamp: N/A
Luminaire Lumens: 4128.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9608	9608	9608
5°	9634	9593	9512
10°	9531	9505	9396
15°	9362	9362	9255
20°	9164	9176	9058
25°	8862	8972	8830
30°	8346	8720	8614
35°	7886	8359	8372
40°	7503	7907	8115
45°	7073	7429	7809
50°	6621	7000	7477
55°	6107	6513	7072
60°	5500	5943	6578
65°	4856	5284	5983
70°	4047	4500	5083
75°	3179	3593	3980
80°	2275	2529	2805
85°	1482	1482	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	4.1
10°-20°	472.2	11.4
20°-30°	690.0	16.7
30°-40°	783.3	19.0
40°-50°	756.1	18.3
50°-60°	623.8	15.1
60°-70°	415.4	10.1
70°-80°	185.9	4.5
80°-90°	33.3	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°	1330.3	32.2
0°-40°	2113.6	51.2
0°-60°	3493.5	84.6
0°-90°	4128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1783	1782	1776	1766	1761	169
15°	1680	1684	1680	1673	1661	474
25°	1492	1504	1511	1500	1487	683
35°	1200	1217	1272	1279	1274	752
45°	929	945	976	1020	1026	717
55°	651	662	694	732	754	581
65°	381	392	415	444	470	378
75°	153	161	173	181	191	167
85°	24	24	24	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1785.3	1785.3	1785.3	1785.3	1785.3
2.5°	1790.1	1790.7	1786.6	1775.7	1768.8
5°	1783.2	1782.5	1775.7	1766.0	1760.6
7.5°	1763.3	1764.7	1762.6	1748.9	1741.4
10°	1744.1	1744.8	1739.3	1728.3	1719.4
12.5°	1719.4	1718.7	1711.2	1705.7	1691.3
15°	1680.3	1684.4	1680.3	1672.8	1661.1
17.5°	1642.6	1642.6	1645.3	1632.3	1623.4
20°	1600.1	1602.1	1602.1	1591.8	1581.6
22.5°	1550.7	1556.9	1558.9	1548.0	1535.6
25°	1492.4	1504.1	1510.9	1499.9	1486.9
27.5°	1421.8	1439.6	1460.2	1451.9	1437.5
30°	1342.9	1368.9	1403.2	1396.4	1386.1
32.5°	1268.1	1294.2	1341.5	1338.8	1333.3
35°	1200.2	1216.7	1272.2	1279.1	1274.3
37.5°	1135.8	1150.8	1203.0	1218.7	1214.6
40°	1067.9	1084.3	1125.5	1153.6	1155.0
42.5°	1000.6	1016.4	1050.0	1090.5	1090.5
45°	929.3	945.1	976.0	1020.5	1026.0
47.5°	859.4	875.8	906.0	950.6	959.5
50°	790.8	805.9	836.0	879.3	893.0
52.5°	719.5	735.9	765.4	805.2	825.1
55°	650.9	661.8	694.1	732.5	753.7
57.5°	579.5	589.8	626.2	659.1	681.0
60°	511.0	524.0	552.1	585.7	611.1
62.5°	445.1	458.8	482.8	512.3	541.1
65°	381.3	391.6	414.9	444.4	469.8
67.5°	319.6	328.5	351.8	372.4	399.2
70°	257.2	268.9	286.0	305.9	323.0
72.5°	207.1	211.9	226.3	240.7	258.6
75°	152.9	161.2	172.8	181.1	191.4
77.5°	109.7	114.5	121.4	128.3	137.9
80°	73.4	75.4	81.6	83.0	90.5
82.5°	44.6	46.0	47.3	48.0	50.8
85°	24.0	24.0	24.0	22.6	22.6
87.5°	13.7	13.7	11.7	9.6	6.9
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)