

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: P556030

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-97-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: P556030
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-40-UNV-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

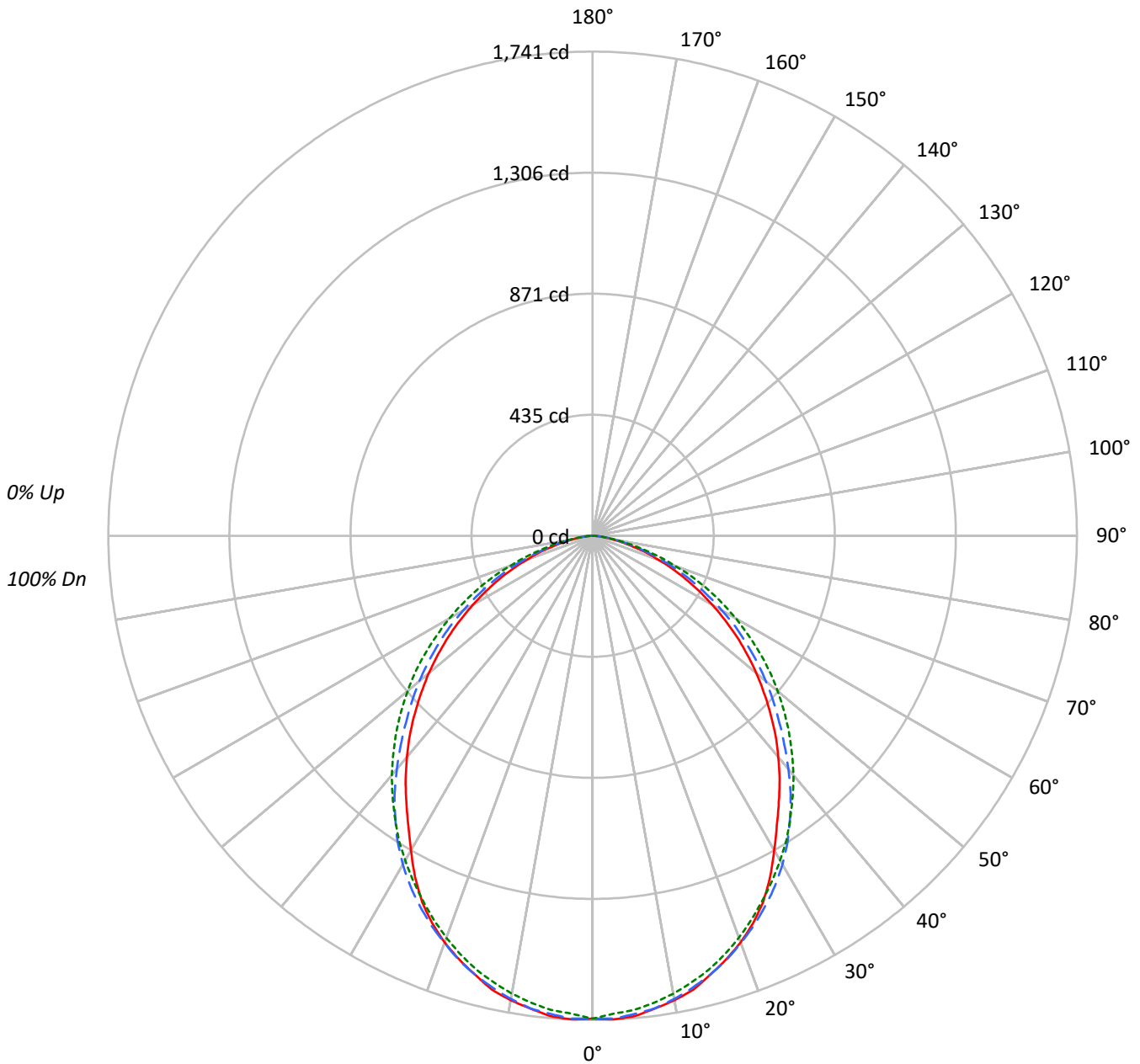
Lumens per Lamp: N/A
Luminaire Lumens: 4014.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	9343	9343	9343
5°	9368	9328	9249
10°	9268	9243	9137
15°	9104	9104	9000
20°	8911	8923	8808
25°	8618	8725	8586
30°	8115	8480	8376
35°	7668	8128	8141
40°	7295	7689	7891
45°	6878	7223	7594
50°	6438	6807	7270
55°	5939	6333	6877
60°	5348	5779	6396
65°	4722	5138	5817
70°	3936	4376	4943
75°	3092	3496	3870
80°	2213	2461	2727
85°	1439	1439	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	4.1
10°-20°	459.2	11.4
20°-30°	671.0	16.7
30°-40°	761.6	19.0
40°-50°	735.3	18.3
50°-60°	606.5	15.1
60°-70°	403.9	10.1
70°-80°	180.7	4.5
80°-90°	32.3	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°	1293.6	32.2
0°-40°	2055.2	51.2
0°-60°	3397.0	84.6
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1734	1733	1727	1717	1712	164
15°	1634	1638	1634	1627	1615	461
25°	1451	1462	1469	1458	1446	665
35°	1167	1183	1237	1244	1239	731
45°	904	919	949	992	998	697
55°	633	644	675	712	733	565
65°	371	381	404	432	457	368
75°	149	157	168	176	186	163
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1740.6	1741.3	1737.3	1726.6	1719.9
5°	1734.0	1733.3	1726.6	1717.3	1711.9
7.5°	1714.6	1715.9	1713.9	1700.6	1693.3
10°	1695.9	1696.6	1691.3	1680.6	1671.9
12.5°	1671.9	1671.3	1663.9	1658.6	1644.6
15°	1633.9	1637.9	1633.9	1626.6	1615.2
17.5°	1597.2	1597.2	1599.9	1587.2	1578.6
20°	1555.9	1557.9	1557.9	1547.9	1537.9
22.5°	1507.9	1513.9	1515.9	1505.2	1493.2
25°	1451.2	1462.5	1469.2	1458.5	1445.8
27.5°	1382.5	1399.8	1419.8	1411.8	1397.8
30°	1305.8	1331.1	1364.5	1357.8	1347.8
32.5°	1233.1	1258.4	1304.5	1301.8	1296.5
35°	1167.1	1183.1	1237.1	1243.8	1239.1
37.5°	1104.4	1119.1	1169.7	1185.1	1181.1
40°	1038.4	1054.4	1094.4	1121.7	1123.1
42.5°	973.0	988.4	1021.0	1060.4	1060.4
45°	903.7	919.0	949.0	992.4	997.7
47.5°	835.6	851.6	881.0	924.3	933.0
50°	768.9	783.6	813.0	855.0	868.3
52.5°	699.6	715.6	744.3	782.9	802.3
55°	632.9	643.6	674.9	712.3	732.9
57.5°	563.5	573.5	608.9	640.9	662.2
60°	496.8	509.5	536.9	569.5	594.2
62.5°	432.8	446.2	469.5	498.2	526.2
65°	370.8	380.8	403.5	432.2	456.8
67.5°	310.8	319.4	342.1	362.1	388.1
70°	250.1	261.4	278.1	297.4	314.1
72.5°	201.4	206.1	220.1	234.1	251.4
75°	148.7	156.7	168.1	176.1	186.1
77.5°	106.7	111.4	118.0	124.7	134.0
80°	71.4	73.4	79.4	80.7	88.0
82.5°	43.3	44.7	46.0	46.7	49.4
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	6.7
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)