

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: P556022

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-87-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: P556022
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

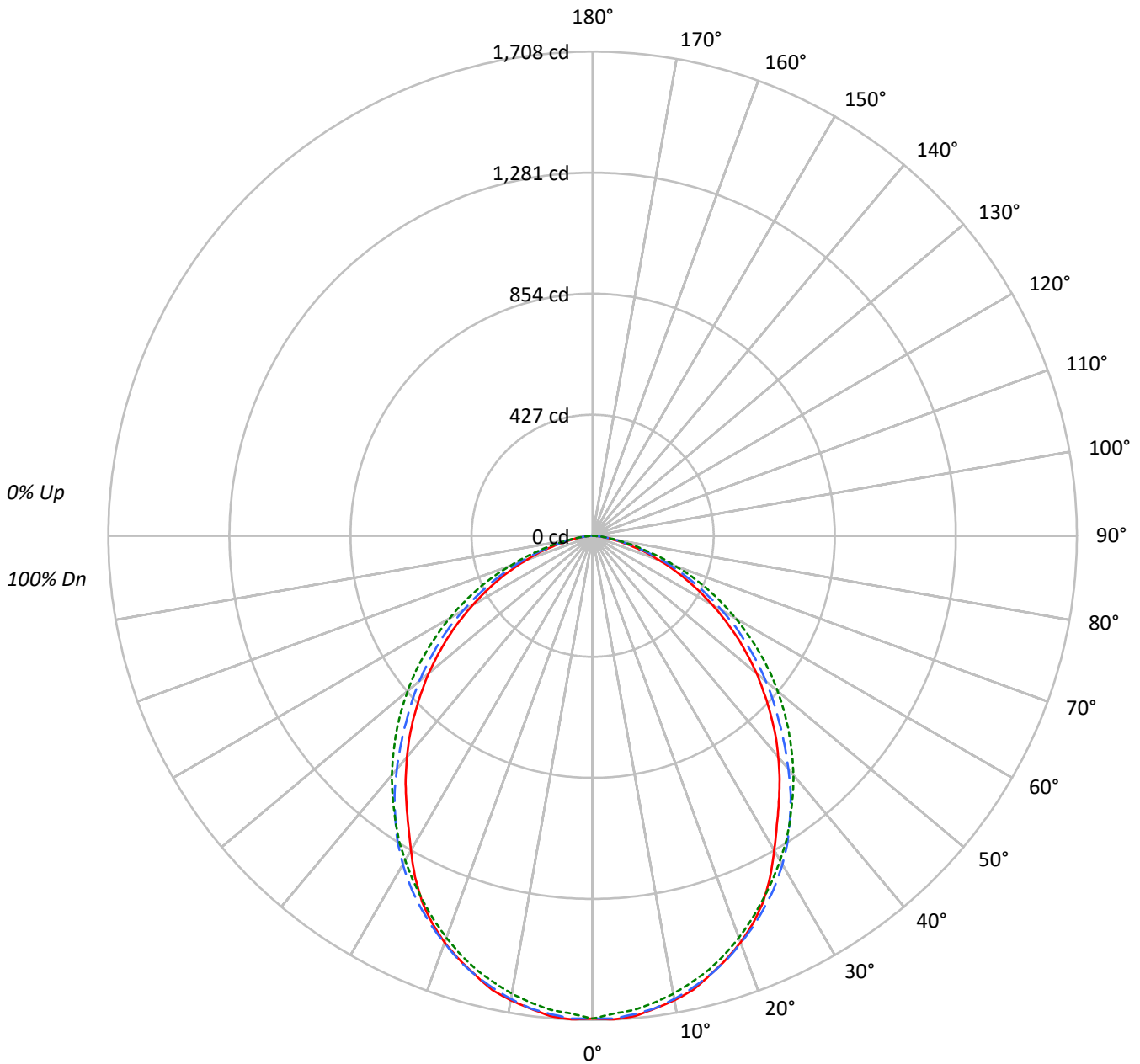
Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9166	9166	9166
5°	9190	9151	9074
10°	9093	9067	8964
15°	8932	8932	8830
20°	8742	8754	8641
25°	8454	8560	8424
30°	7961	8319	8217
35°	7523	7974	7987
40°	7157	7543	7741
45°	6747	7086	7450
50°	6316	6678	7133
55°	5826	6213	6747
60°	5246	5669	6275
65°	4633	5040	5708
70°	3862	4293	4850
75°	3034	3429	3795
80°	2170	2414	2678
85°	1414	1414	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.1
10°-20°	450.5	11.4
20°-30°	658.3	16.7
30°-40°	747.2	19.0
40°-50°	721.3	18.3
50°-60°	595.1	15.1
60°-70°	396.3	10.1
70°-80°	177.3	4.5
80°-90°	31.7	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°	1269.1	32.2
0°-40°	2016.3	51.2
0°-60°	3332.7	84.6
0°-90°	3938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1701	1700	1694	1685	1680	161
15°	1603	1607	1603	1596	1585	452
25°	1424	1435	1441	1431	1418	652
35°	1145	1161	1214	1220	1216	717
45°	886	902	931	974	979	684
55°	621	631	662	699	719	554
65°	364	374	396	424	448	361
75°	146	154	165	173	182	160
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°	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1707.7	1708.3	1704.4	1693.9	1687.4
5°	1701.1	1700.5	1693.9	1684.8	1679.5
7.5°	1682.1	1683.5	1681.5	1668.4	1661.2
10°	1663.8	1664.5	1659.2	1648.8	1640.3
12.5°	1640.3	1639.6	1632.4	1627.2	1613.4
15°	1603.0	1606.9	1603.0	1595.8	1584.7
17.5°	1567.0	1567.0	1569.6	1557.2	1548.7
20°	1526.4	1528.4	1528.4	1518.6	1508.8
22.5°	1479.3	1485.2	1487.2	1476.7	1464.9
25°	1423.7	1434.8	1441.4	1430.9	1418.5
27.5°	1356.3	1373.3	1393.0	1385.1	1371.4
30°	1281.1	1305.9	1338.7	1332.1	1322.3
32.5°	1209.8	1234.6	1279.8	1277.1	1271.9
35°	1145.0	1160.7	1213.7	1220.2	1215.6
37.5°	1083.5	1097.9	1147.6	1162.7	1158.7
40°	1018.7	1034.4	1073.7	1100.5	1101.8
42.5°	954.6	969.6	1001.7	1040.3	1040.3
45°	886.5	901.6	931.0	973.6	978.8
47.5°	819.8	835.5	864.3	906.8	915.3
50°	754.4	768.8	797.6	838.8	851.9
52.5°	686.3	702.0	730.2	768.1	787.1
55°	620.9	631.4	662.1	698.8	719.1
57.5°	552.9	562.7	597.4	628.8	649.7
60°	487.4	499.9	526.7	558.8	583.0
62.5°	424.6	437.7	460.6	488.7	516.2
65°	363.8	373.6	395.8	424.0	448.2
67.5°	304.9	313.4	335.6	355.3	380.8
70°	245.4	256.5	272.8	291.8	308.2
72.5°	197.6	202.2	215.9	229.7	246.7
75°	145.9	153.8	164.9	172.7	182.5
77.5°	104.7	109.3	115.8	122.3	131.5
80°	70.0	72.0	77.9	79.2	86.4
82.5°	42.5	43.8	45.1	45.8	48.4
85°	22.9	22.9	22.9	21.6	21.6
87.5°	13.1	13.1	11.1	9.2	6.5
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)