

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: P555950

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-97-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: P555950
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-30-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

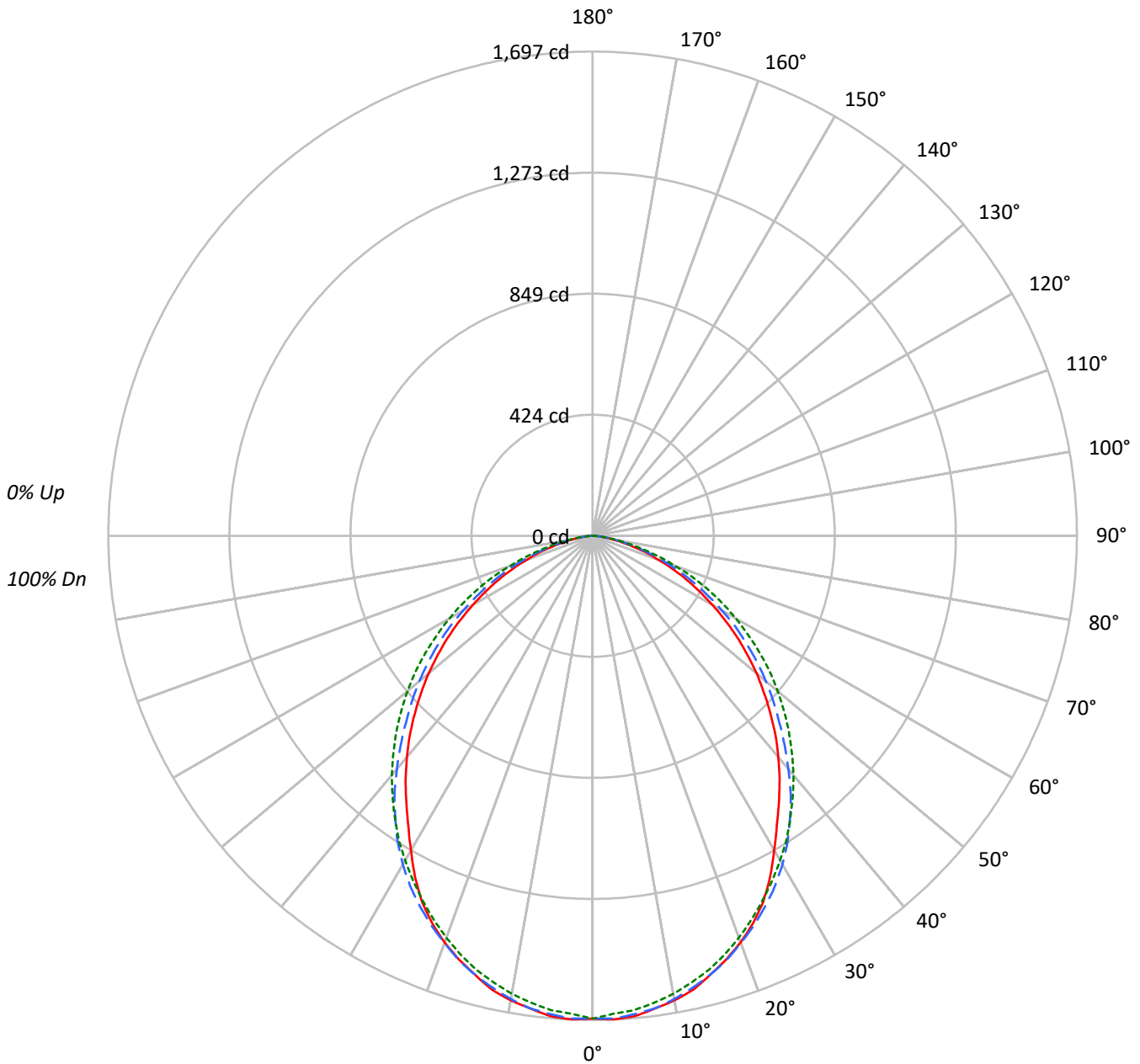
Lumens per Lamp: N/A
Luminaire Lumens: 3913.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9108	9108	9108
5°	9132	9094	9016
10°	9035	9010	8907
15°	8875	8875	8773
20°	8687	8698	8586
25°	8401	8505	8370
30°	7910	8267	8165
35°	7475	7924	7936
40°	7111	7496	7692
45°	6705	7041	7403
50°	6276	6635	7088
55°	5789	6173	6704
60°	5213	5633	6236
65°	4604	5009	5671
70°	3836	4266	4818
75°	3015	3406	3772
80°	2157	2399	2659
85°	1408	1408	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	4.1
10°-20°	447.6	11.4
20°-30°	654.1	16.7
30°-40°	742.5	19.0
40°-50°	716.8	18.3
50°-60°	591.3	15.1
60°-70°	393.7	10.1
70°-80°	176.2	4.5
80°-90°	31.5	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°	1261.0	32.2
0°-40°	2003.5	51.2
0°-60°	3311.5	84.6
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1690	1690	1683	1674	1669	160
15°	1593	1597	1593	1586	1575	449
25°	1415	1426	1432	1422	1410	648
35°	1138	1153	1206	1212	1208	713
45°	881	896	925	967	973	680
55°	617	627	658	694	714	551
65°	362	371	393	421	445	358
75°	145	153	164	172	181	159
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°	1692.3	1692.3	1692.3	1692.3	1692.3
2.5°	1696.8	1697.5	1693.6	1683.2	1676.7
5°	1690.3	1689.7	1683.2	1674.1	1668.9
7.5°	1671.5	1672.8	1670.8	1657.8	1650.7
10°	1653.3	1653.9	1648.7	1638.3	1629.9
12.5°	1629.9	1629.2	1622.1	1616.9	1603.2
15°	1592.8	1596.7	1592.8	1585.7	1574.6
17.5°	1557.0	1557.0	1559.6	1547.3	1538.8
20°	1516.7	1518.7	1518.7	1508.9	1499.2
22.5°	1469.9	1475.8	1477.7	1467.3	1455.6
25°	1414.7	1425.7	1432.2	1421.8	1409.5
27.5°	1347.7	1364.6	1384.1	1376.3	1362.7
30°	1272.9	1297.6	1330.2	1323.7	1313.9
32.5°	1202.1	1226.8	1271.6	1269.0	1263.8
35°	1137.7	1153.3	1206.0	1212.5	1207.9
37.5°	1076.6	1090.9	1140.3	1155.3	1151.4
40°	1012.2	1027.8	1066.9	1093.5	1094.8
42.5°	948.5	963.5	995.3	1033.7	1033.7
45°	880.9	895.9	925.1	967.4	972.6
47.5°	814.6	830.2	858.8	901.1	909.5
50°	749.6	763.9	792.5	833.5	846.5
52.5°	682.0	697.6	725.5	763.2	782.1
55°	617.0	627.4	657.9	694.3	714.5
57.5°	549.4	559.1	593.6	624.8	645.6
60°	484.3	496.7	523.3	555.2	579.3
62.5°	421.9	434.9	457.7	485.6	512.9
65°	361.5	371.2	393.3	421.3	445.3
67.5°	303.0	311.4	333.5	353.0	378.4
70°	243.8	254.8	271.1	290.0	306.2
72.5°	196.3	200.9	214.5	228.2	245.1
75°	145.0	152.8	163.8	171.6	181.4
77.5°	104.0	108.6	115.1	121.6	130.7
80°	69.6	71.5	77.4	78.7	85.8
82.5°	42.3	43.6	44.9	45.5	48.1
85°	22.8	22.8	22.8	21.5	21.5
87.5°	13.0	13.0	11.1	9.1	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)