

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: P556058

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-94-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: P556058
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-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

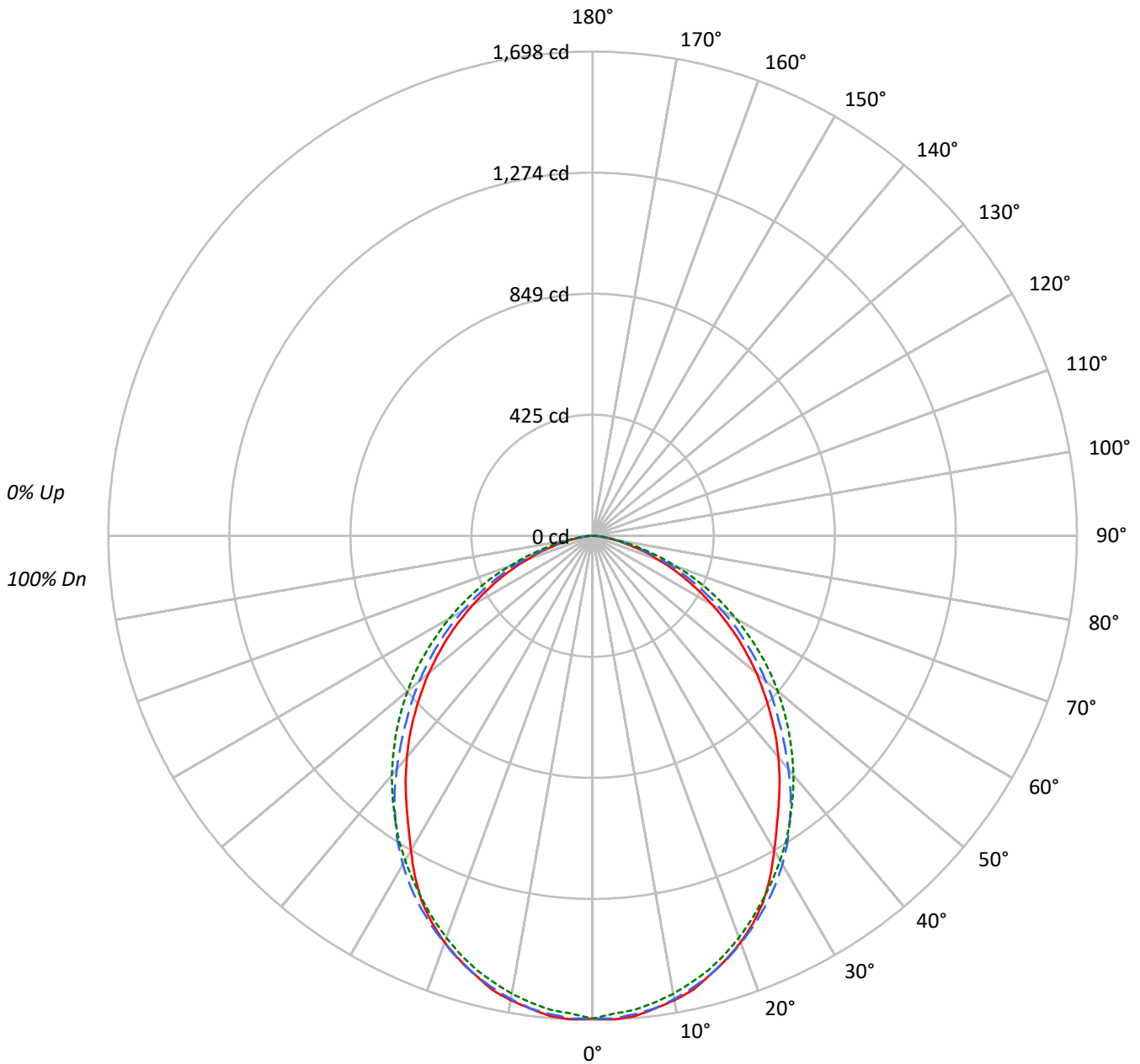
Lumens per Lamp: N/A
Luminaire Lumens: 3915.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9112	9112	9112
5°	9137	9098	9021
10°	9040	9015	8912
15°	8879	8879	8778
20°	8691	8703	8591
25°	8405	8510	8374
30°	7915	8270	8170
35°	7479	7928	7940
40°	7116	7499	7696
45°	6709	7045	7406
50°	6280	6639	7091
55°	5792	6177	6708
60°	5216	5636	6239
65°	4606	5011	5675
70°	3838	4268	4821
75°	3017	3408	3774
80°	2157	2399	2662
85°	1408	1408	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	4.1
10°-20°	447.8	11.4
20°-30°	654.4	16.7
30°-40°	742.9	19.0
40°-50°	717.1	18.3
50°-60°	591.6	15.1
60°-70°	393.9	10.1
70°-80°	176.3	4.5
80°-90°	31.6	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°	1261.7	32.2
0°-40°	2004.6	51.2
0°-60°	3313.2	84.6
0°-90°	3915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1691	1690	1684	1675	1670	160
15°	1594	1598	1594	1586	1575	449
25°	1415	1426	1433	1422	1410	648
35°	1138	1154	1207	1213	1208	713
45°	881	896	926	968	973	680
55°	617	628	658	695	715	551
65°	362	371	394	422	446	359
75°	145	153	164	172	182	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°	1693.1	1693.1	1693.1	1693.1	1693.1
2.5°	1697.7	1698.3	1694.4	1684.0	1677.5
5°	1691.2	1690.5	1684.0	1674.9	1669.7
7.5°	1672.3	1673.6	1671.7	1658.7	1651.5
10°	1654.1	1654.8	1649.6	1639.1	1630.7
12.5°	1630.7	1630.0	1622.9	1617.7	1604.0
15°	1593.6	1597.5	1593.6	1586.5	1575.4
17.5°	1557.8	1557.8	1560.4	1548.1	1539.6
20°	1517.5	1519.5	1519.5	1509.7	1500.0
22.5°	1470.7	1476.5	1478.5	1468.1	1456.4
25°	1415.4	1426.4	1433.0	1422.5	1410.2
27.5°	1348.4	1365.3	1384.8	1377.0	1363.4
30°	1273.6	1298.3	1330.8	1324.3	1314.6
32.5°	1202.7	1227.4	1272.3	1269.7	1264.5
35°	1138.3	1153.9	1206.6	1213.1	1208.5
37.5°	1077.2	1091.5	1140.9	1155.9	1152.0
40°	1012.8	1028.4	1067.4	1094.1	1095.4
42.5°	949.0	964.0	995.8	1034.2	1034.2
45°	881.4	896.3	925.6	967.9	973.1
47.5°	815.0	830.6	859.3	901.5	910.0
50°	750.0	764.3	792.9	833.9	846.9
52.5°	682.3	697.9	725.9	763.6	782.5
55°	617.3	627.7	658.3	694.7	714.9
57.5°	549.6	559.4	593.9	625.1	645.9
60°	484.6	496.9	523.6	555.5	579.6
62.5°	422.1	435.2	457.9	485.9	513.2
65°	361.7	371.4	393.5	421.5	445.6
67.5°	303.1	311.6	333.7	353.2	378.6
70°	243.9	255.0	271.2	290.1	306.4
72.5°	196.4	201.0	214.7	228.3	245.2
75°	145.1	152.9	163.9	171.7	181.5
77.5°	104.1	108.6	115.1	121.6	130.7
80°	69.6	71.6	77.4	78.7	85.9
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)