

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: P555948

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-96-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: P555948
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

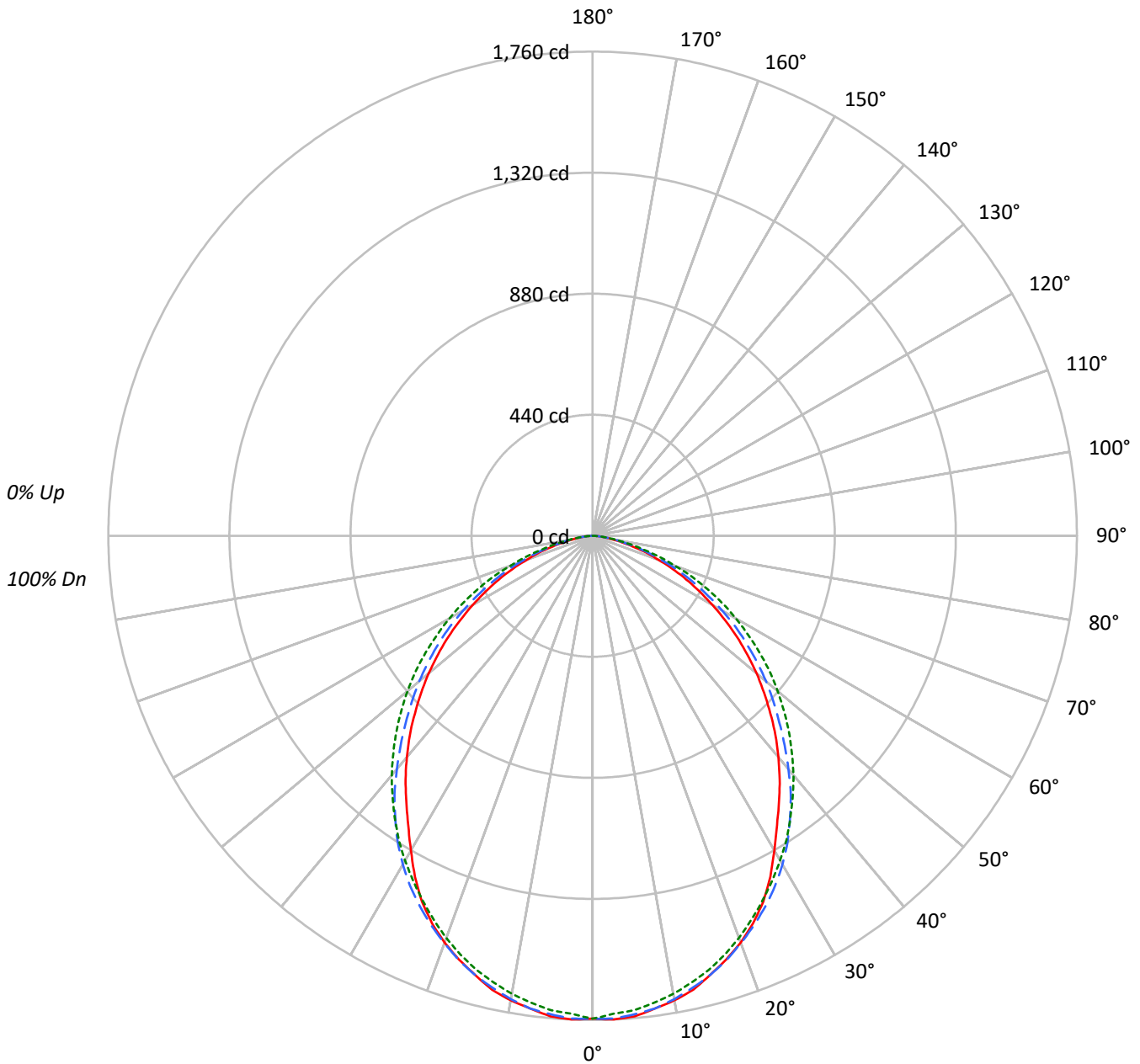
Lumens per Lamp: N/A
Luminaire Lumens: 4059.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9447	9447	9447
5°	9473	9433	9352
10°	9372	9346	9240
15°	9206	9206	9100
20°	9011	9023	8907
25°	8715	8823	8682
30°	8206	8575	8470
35°	7754	8219	8232
40°	7377	7775	7979
45°	6955	7304	7679
50°	6511	6883	7351
55°	6005	6404	6954
60°	5408	5844	6468
65°	4776	5196	5883
70°	3980	4425	4998
75°	3127	3533	3913
80°	2238	2489	2758
85°	1457	1457	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	4.1
10°-20°	464.3	11.4
20°-30°	678.5	16.7
30°-40°	770.2	19.0
40°-50°	743.5	18.3
50°-60°	613.3	15.1
60°-70°	408.4	10.1
70°-80°	182.8	4.5
80°-90°	32.7	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°	1308.1	32.2
0°-40°	2078.3	51.2
0°-60°	3435.1	84.6
0°-90°	4059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1753	1753	1746	1736	1731	166
15°	1652	1656	1652	1645	1633	466
25°	1468	1479	1486	1475	1462	672
35°	1180	1196	1251	1258	1253	739
45°	914	929	960	1004	1009	705
55°	640	651	682	720	741	571
65°	375	385	408	437	462	372
75°	150	158	170	178	188	164
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1760.1	1760.8	1756.8	1746.0	1739.2
5°	1753.4	1752.7	1746.0	1736.5	1731.1
7.5°	1733.8	1735.2	1733.2	1719.7	1712.3
10°	1714.9	1715.6	1710.2	1699.4	1690.7
12.5°	1690.7	1690.0	1682.6	1677.2	1663.0
15°	1652.2	1656.3	1652.2	1644.8	1633.3
17.5°	1615.1	1615.1	1617.8	1605.0	1596.3
20°	1573.3	1575.4	1575.4	1565.2	1555.1
22.5°	1524.8	1530.8	1532.9	1522.1	1509.9
25°	1467.5	1478.9	1485.7	1474.9	1462.1
27.5°	1398.0	1415.5	1435.8	1427.7	1413.5
30°	1320.4	1346.1	1379.8	1373.0	1362.9
32.5°	1246.9	1272.6	1319.1	1316.4	1311.0
35°	1180.2	1196.4	1251.0	1257.7	1253.0
37.5°	1116.8	1131.6	1182.9	1198.4	1194.3
40°	1050.0	1066.2	1106.7	1134.3	1135.7
42.5°	983.9	999.4	1032.5	1072.3	1072.3
45°	913.8	929.3	959.6	1003.5	1008.9
47.5°	845.0	861.2	890.9	934.7	943.5
50°	777.6	792.4	822.1	864.6	878.0
52.5°	707.4	723.6	752.6	791.7	811.3
55°	640.0	650.8	682.5	720.2	741.1
57.5°	569.9	580.0	615.7	648.1	669.7
60°	502.4	515.2	542.9	575.9	600.9
62.5°	437.7	451.2	474.8	503.8	532.1
65°	375.0	385.1	408.0	437.0	462.0
67.5°	314.3	323.0	346.0	366.2	392.5
70°	252.9	264.4	281.2	300.8	317.6
72.5°	203.7	208.4	222.5	236.7	254.2
75°	150.4	158.5	169.9	178.0	188.2
77.5°	107.9	112.6	119.4	126.1	135.6
80°	72.2	74.2	80.3	81.6	89.0
82.5°	43.8	45.2	46.5	47.2	49.9
85°	23.6	23.6	23.6	22.3	22.3
87.5°	13.5	13.5	11.5	9.4	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)