

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: P555923

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-85-EDD**

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: P555923
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

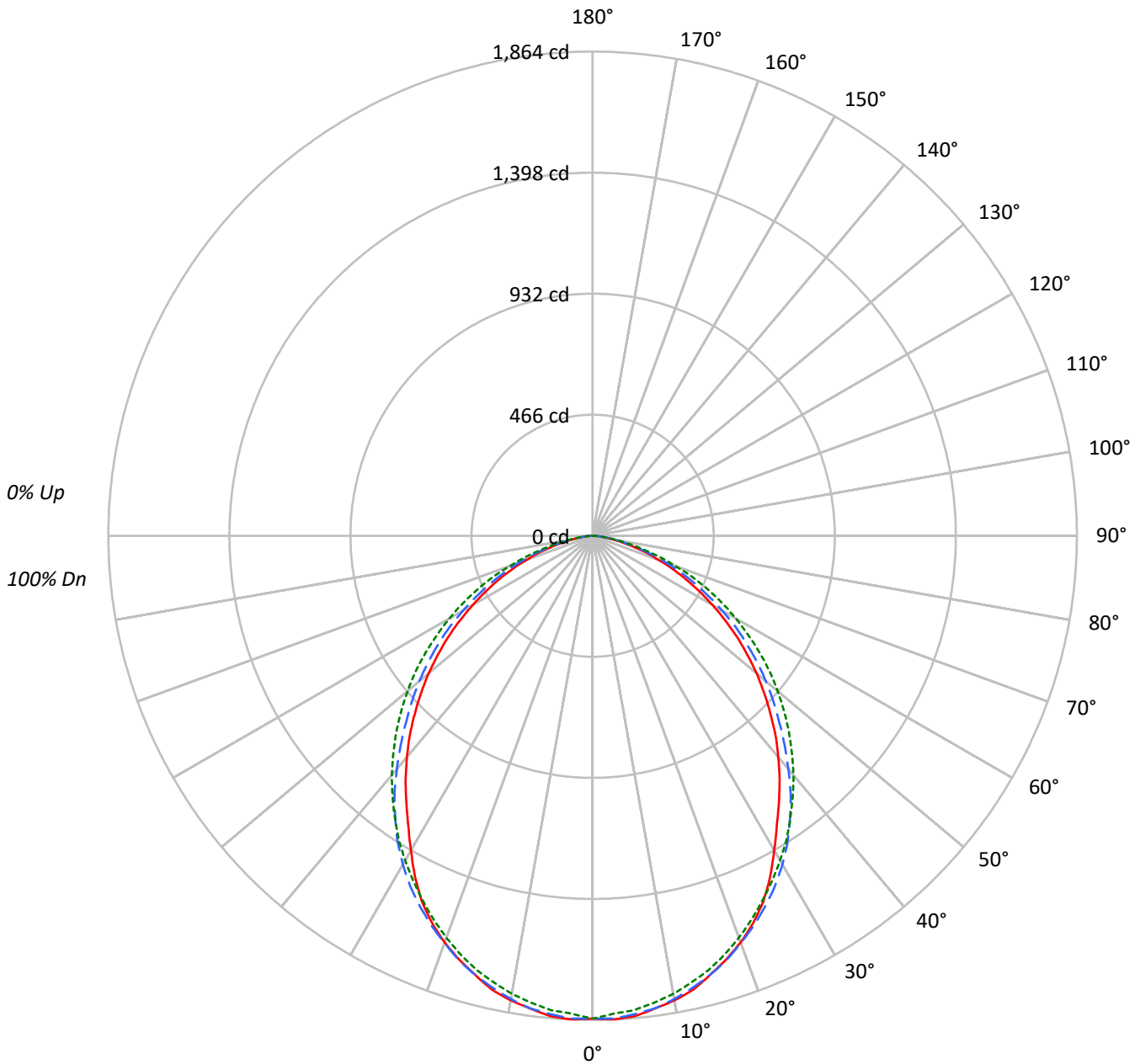
Lumens per Lamp: N/A
Luminaire Lumens: 4298.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10004	10004	10004
5°	10030	9988	9903
10°	9924	9897	9783
15°	9748	9748	9636
20°	9542	9554	9431
25°	9228	9342	9193
30°	8689	9079	8969
35°	8211	8703	8717
40°	7811	8233	8448
45°	7365	7734	8131
50°	6893	7289	7784
55°	6359	6781	7364
60°	5726	6187	6849
65°	5056	5501	6230
70°	4214	4686	5292
75°	3310	3743	4142
80°	2368	2634	2923
85°	1544	1544	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	4.1
10°-20°	491.6	11.4
20°-30°	718.5	16.7
30°-40°	815.5	19.0
40°-50°	787.3	18.3
50°-60°	649.4	15.1
60°-70°	432.5	10.1
70°-80°	193.5	4.5
80°-90°	34.6	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°	1385.1	32.2
0°-40°	2200.6	51.2
0°-60°	3637.4	84.6
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1859	1859	1859	1859	1859	
5°	1857	1856	1849	1839	1833	176
15°	1750	1754	1750	1742	1730	493
25°	1554	1566	1573	1562	1548	712
35°	1250	1267	1325	1332	1327	783
45°	968	984	1016	1063	1068	747
55°	678	689	723	763	785	605
65°	397	408	432	463	489	394
75°	159	168	180	188	199	174
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1863.8	1864.5	1860.2	1848.8	1841.6
5°	1856.6	1855.9	1848.8	1838.8	1833.1
7.5°	1835.9	1837.4	1835.2	1820.9	1813.1
10°	1815.9	1816.6	1810.9	1799.5	1790.2
12.5°	1790.2	1789.5	1781.7	1775.9	1760.9
15°	1749.5	1753.8	1749.5	1741.7	1729.5
17.5°	1710.2	1710.2	1713.1	1699.5	1690.2
20°	1666.0	1668.1	1668.1	1657.4	1646.7
22.5°	1614.6	1621.0	1623.1	1611.7	1598.8
25°	1553.9	1566.0	1573.1	1561.7	1548.1
27.5°	1480.3	1498.9	1520.3	1511.7	1496.7
30°	1398.2	1425.3	1461.0	1453.9	1443.2
32.5°	1320.4	1347.5	1396.8	1393.9	1388.2
35°	1249.7	1266.8	1324.6	1331.8	1326.8
37.5°	1182.5	1198.2	1252.5	1268.9	1264.7
40°	1111.8	1129.0	1171.8	1201.1	1202.5
42.5°	1041.9	1058.3	1093.3	1135.4	1135.4
45°	967.6	984.0	1016.1	1062.6	1068.3
47.5°	894.8	911.9	943.3	989.7	999.0
50°	823.3	839.1	870.5	915.5	929.7
52.5°	749.1	766.2	796.9	838.3	859.0
55°	677.7	689.1	722.7	762.6	784.8
57.5°	603.4	614.1	652.0	686.2	709.1
60°	532.0	545.6	574.8	609.8	636.3
62.5°	463.4	477.7	502.7	533.4	563.4
65°	397.0	407.7	432.0	462.7	489.2
67.5°	332.8	342.0	366.3	387.8	415.6
70°	267.8	279.9	297.8	318.5	336.3
72.5°	215.7	220.7	235.6	250.6	269.2
75°	159.2	167.8	180.0	188.5	199.2
77.5°	114.3	119.3	126.4	133.5	143.5
80°	76.4	78.5	85.0	86.4	94.3
82.5°	46.4	47.8	49.3	50.0	52.8
85°	25.0	25.0	25.0	23.6	23.6
87.5°	14.3	14.3	12.1	10.0	7.1
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)