

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: P555915

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-94-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: P555915
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

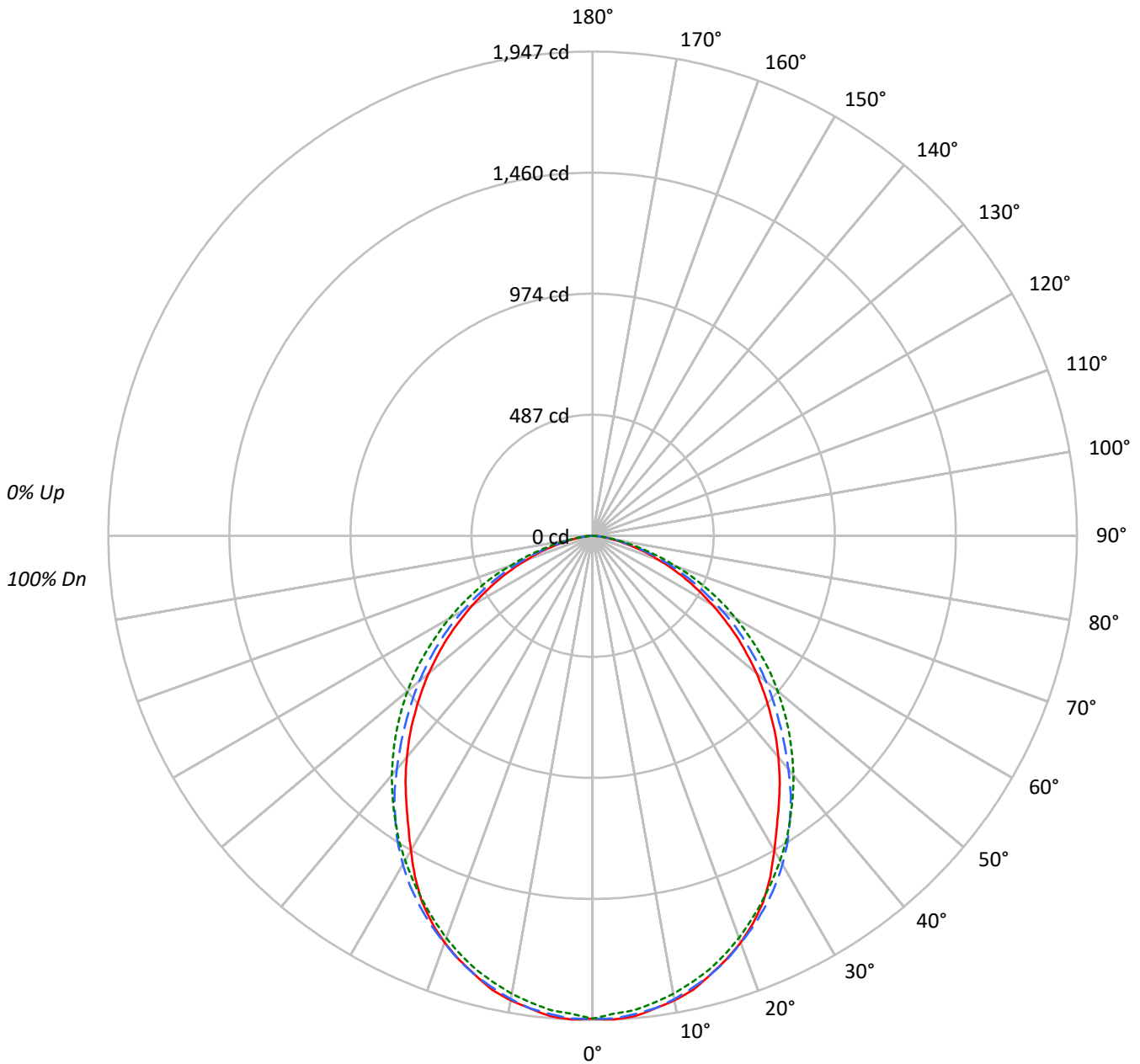
Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10451	10451	10451
5°	10479	10434	10346
10°	10367	10339	10221
15°	10184	10184	10067
20°	9968	9980	9853
25°	9640	9759	9604
30°	9077	9485	9369
35°	8577	9092	9106
40°	8160	8601	8826
45°	7693	8079	8494
50°	7201	7614	8133
55°	6642	7083	7692
60°	5983	6464	7155
65°	5282	5747	6507
70°	4401	4895	5530
75°	3460	3909	4327
80°	2473	2752	3053
85°	1612	1612	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	4.1
10°-20°	513.6	11.4
20°-30°	750.6	16.7
30°-40°	852.0	19.0
40°-50°	822.4	18.3
50°-60°	678.5	15.1
60°-70°	451.8	10.1
70°-80°	202.2	4.5
80°-90°	36.2	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°	1447.0	32.2
0°-40°	2299.0	51.2
0°-60°	3799.9	84.6
0°-90°	4490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1940	1939	1931	1921	1915	184
15°	1828	1832	1828	1820	1807	515
25°	1623	1636	1643	1632	1617	743
35°	1306	1323	1384	1391	1386	818
45°	1011	1028	1062	1110	1116	780
55°	708	720	755	797	820	632
65°	415	426	451	483	511	411
75°	166	175	188	197	208	182
85°	26	26	26	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.8	1941.8	1941.8	1941.8	1941.8
2.5°	1947.0	1947.8	1943.3	1931.4	1923.9
5°	1939.6	1938.8	1931.4	1920.9	1915.0
7.5°	1917.9	1919.4	1917.2	1902.3	1894.1
10°	1897.0	1897.8	1891.8	1879.9	1870.2
12.5°	1870.2	1869.4	1861.2	1855.3	1839.6
15°	1827.7	1832.1	1827.7	1819.5	1806.8
17.5°	1786.6	1786.6	1789.6	1775.5	1765.8
20°	1740.4	1742.6	1742.6	1731.4	1720.3
22.5°	1686.7	1693.4	1695.6	1683.7	1670.3
25°	1623.3	1636.0	1643.4	1631.5	1617.3
27.5°	1546.4	1565.8	1588.2	1579.3	1563.6
30°	1460.6	1489.0	1526.3	1518.8	1507.6
32.5°	1379.3	1407.7	1459.2	1456.2	1450.2
35°	1305.5	1323.4	1383.8	1391.3	1386.0
37.5°	1235.4	1251.8	1308.5	1325.6	1321.1
40°	1161.5	1179.4	1224.2	1254.8	1256.2
42.5°	1088.4	1105.6	1142.1	1186.1	1186.1
45°	1010.8	1028.0	1061.5	1110.0	1116.0
47.5°	934.7	952.6	985.5	1033.9	1043.6
50°	860.1	876.5	909.4	956.4	971.3
52.5°	782.5	800.4	832.5	875.8	897.4
55°	707.9	719.9	754.9	796.7	819.8
57.5°	630.4	641.6	681.1	716.9	740.8
60°	555.8	569.9	600.5	637.1	664.7
62.5°	484.1	499.1	525.2	557.3	588.6
65°	414.8	426.0	451.3	483.4	511.0
67.5°	347.6	357.3	382.7	405.1	434.2
70°	279.7	292.4	311.1	332.7	351.4
72.5°	225.3	230.5	246.2	261.8	281.2
75°	166.4	175.3	188.0	196.9	208.1
77.5°	119.4	124.6	132.0	139.5	149.9
80°	79.8	82.1	88.8	90.3	98.5
82.5°	48.5	50.0	51.5	52.2	55.2
85°	26.1	26.1	26.1	24.6	24.6
87.5°	14.9	14.9	12.7	10.4	7.5
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)