

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: P555989

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-86-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: P555989
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-35-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

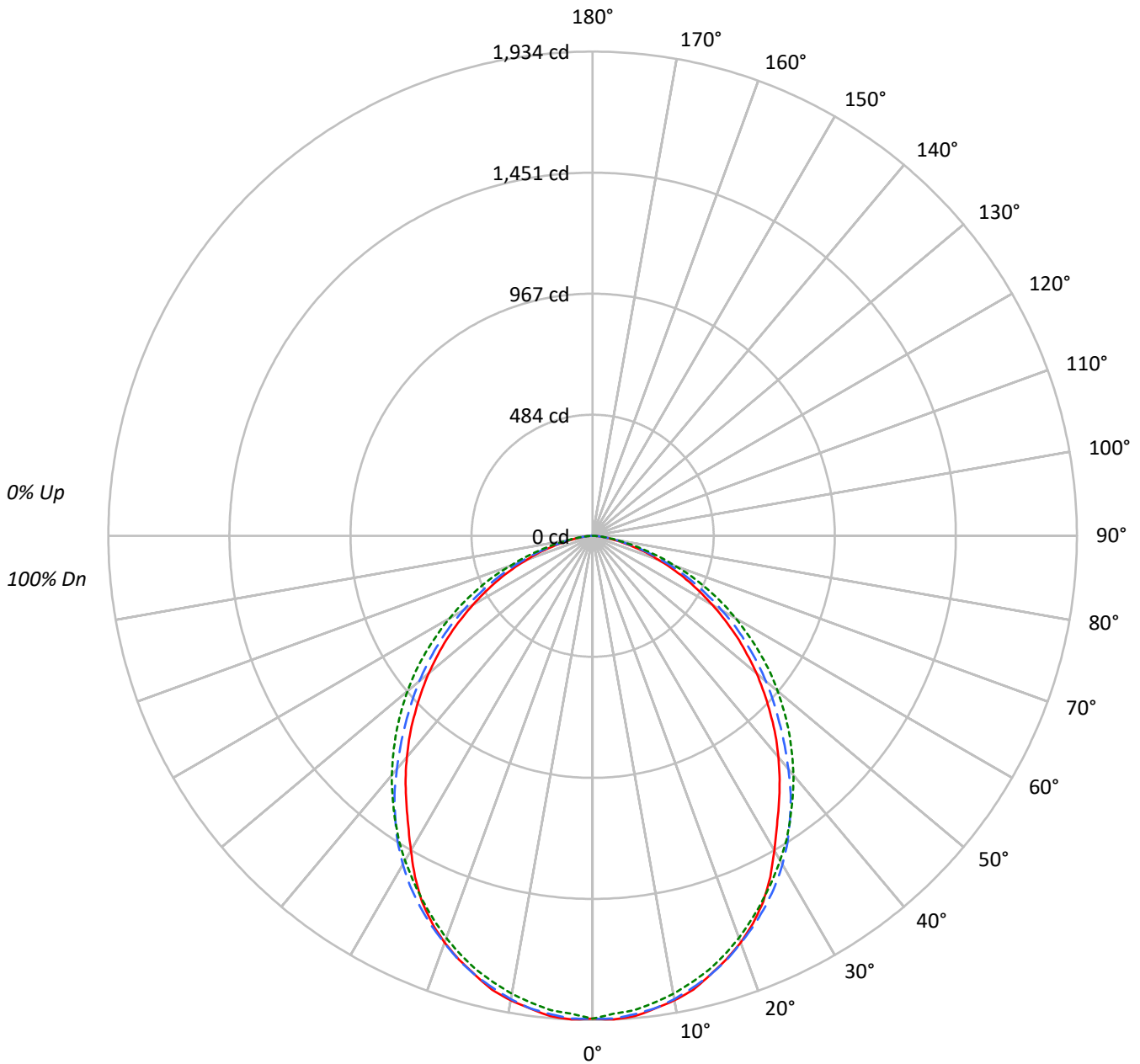
Lumens per Lamp: N/A
Luminaire Lumens: 4460.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): 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					20					
RC	80					70					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°	10381	10381	10381
5°	10408	10365	10277
10°	10298	10270	10152
15°	10116	10116	10000
20°	9901	9914	9787
25°	9575	9694	9540
30°	9017	9422	9307
35°	8520	9031	9046
40°	8105	8543	8767
45°	7642	8025	8437
50°	7154	7563	8078
55°	6598	7036	7642
60°	5942	6421	7106
65°	5247	5709	6464
70°	4373	4862	5492
75°	3435	3882	4298
80°	2458	2734	3031
85°	1599	1599	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	4.1
10°-20°	510.2	11.4
20°-30°	745.5	16.7
30°-40°	846.3	19.0
40°-50°	816.9	18.3
50°-60°	673.9	15.1
60°-70°	448.8	10.1
70°-80°	200.8	4.5
80°-90°	35.9	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°	1437.3	32.2
0°-40°	2283.6	51.2
0°-60°	3774.5	84.6
0°-90°	4460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1927	1926	1918	1908	1902	182
15°	1816	1820	1816	1807	1795	512
25°	1612	1625	1632	1621	1606	738
35°	1297	1314	1375	1382	1377	812
45°	1004	1021	1054	1103	1108	775
55°	703	715	750	791	814	628
65°	412	423	448	480	508	409
75°	165	174	187	196	207	181
85°	26	26	26	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.8	1928.8	1928.8	1928.8	1928.8
2.5°	1934.0	1934.8	1930.3	1918.5	1911.1
5°	1926.6	1925.9	1918.5	1908.1	1902.2
7.5°	1905.1	1906.6	1904.4	1889.6	1881.4
10°	1884.4	1885.1	1879.2	1867.3	1857.7
12.5°	1857.7	1857.0	1848.8	1842.9	1827.3
15°	1815.5	1819.9	1815.5	1807.3	1794.7
17.5°	1774.7	1774.7	1777.7	1763.6	1754.0
20°	1728.8	1731.0	1731.0	1719.9	1708.8
22.5°	1675.4	1682.1	1684.3	1672.4	1659.1
25°	1612.4	1625.0	1632.4	1620.6	1606.5
27.5°	1536.1	1555.4	1577.6	1568.7	1553.1
30°	1450.9	1479.0	1516.1	1508.7	1497.6
32.5°	1370.1	1398.3	1449.4	1446.4	1440.5
35°	1296.8	1314.5	1374.6	1382.0	1376.8
37.5°	1227.1	1243.4	1299.7	1316.8	1312.3
40°	1153.7	1171.5	1216.0	1246.4	1247.9
42.5°	1081.1	1098.2	1134.5	1178.2	1178.2
45°	1004.1	1021.1	1054.4	1102.6	1108.5
47.5°	928.5	946.3	978.9	1027.0	1036.7
50°	854.4	870.7	903.3	950.0	964.8
52.5°	777.3	795.1	827.0	869.9	891.4
55°	703.2	715.1	749.9	791.4	814.4
57.5°	626.1	637.3	676.5	712.1	735.8
60°	552.0	566.1	596.5	632.8	660.2
62.5°	480.9	495.7	521.7	553.5	584.7
65°	412.0	423.1	448.3	480.2	507.6
67.5°	345.3	354.9	380.1	402.4	431.3
70°	277.9	290.5	309.0	330.5	349.0
72.5°	223.8	229.0	244.5	260.1	279.4
75°	165.2	174.1	186.7	195.6	206.7
77.5°	118.6	123.7	131.2	138.6	148.9
80°	79.3	81.5	88.2	89.7	97.8
82.5°	48.2	49.6	51.1	51.9	54.8
85°	25.9	25.9	25.9	24.5	24.5
87.5°	14.8	14.8	12.6	10.4	7.4
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)