

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: P556087

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-87-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: P556087
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-50-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

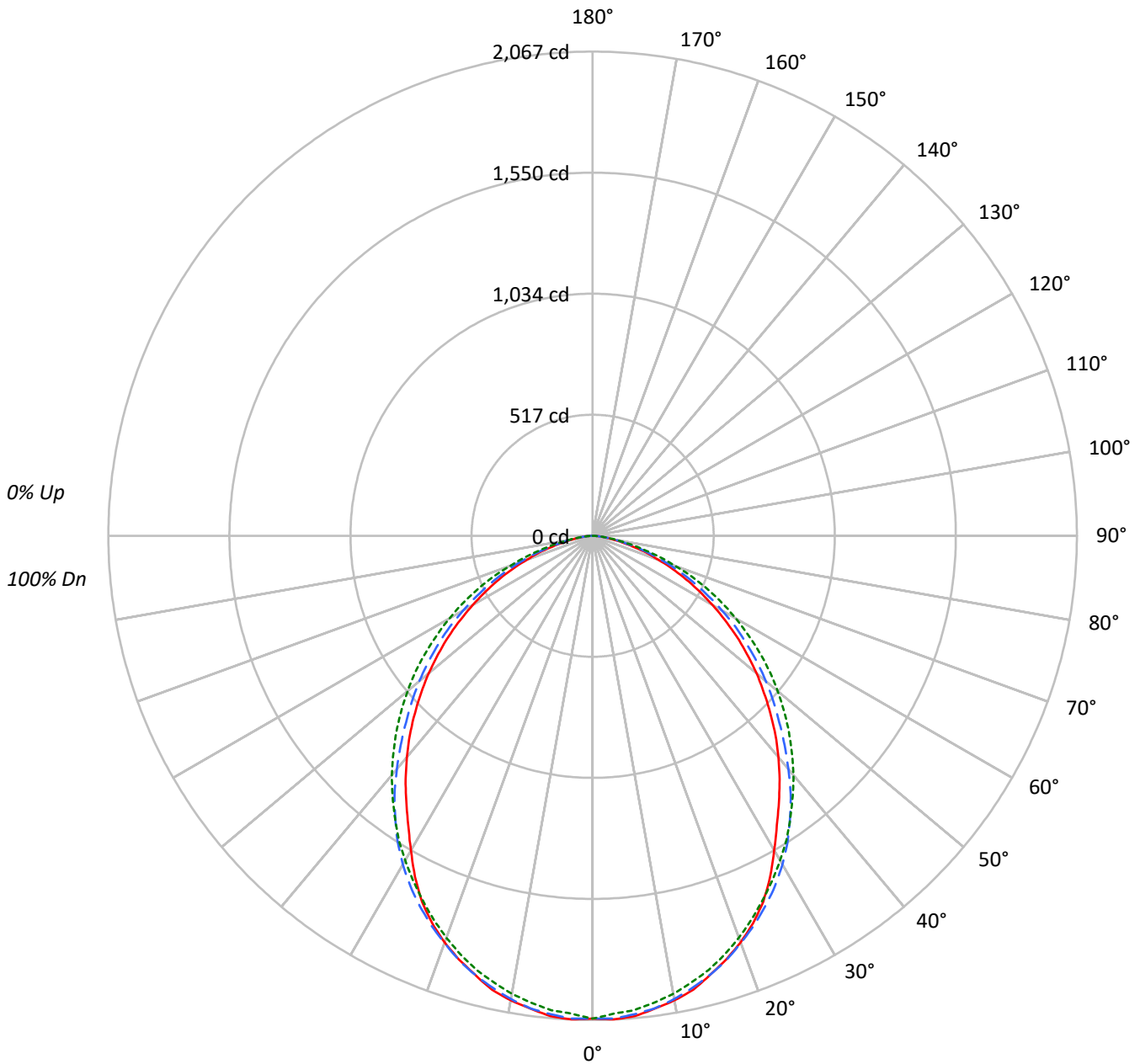
Lumens per Lamp: N/A
Luminaire Lumens: 4766.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					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°	11093	11093	11093
5°	11123	11076	10982
10°	11005	10974	10849
15°	10809	10809	10686
20°	10581	10594	10458
25°	10232	10359	10194
30°	9635	10068	9945
35°	9104	9651	9666
40°	8662	9129	9369
45°	8166	8576	9016
50°	7644	8082	8632
55°	7051	7519	8165
60°	6350	6861	7594
65°	5607	6101	6907
70°	4672	5196	5869
75°	3672	4148	4593
80°	2625	2920	3239
85°	1711	1711	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	4.1
10°-20°	545.2	11.4
20°-30°	796.7	16.7
30°-40°	904.3	19.0
40°-50°	873.0	18.3
50°-60°	720.2	15.1
60°-70°	479.6	10.1
70°-80°	214.6	4.5
80°-90°	38.4	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°	1535.9	32.2
0°-40°	2440.3	51.2
0°-60°	4033.4	84.6
0°-90°	4766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2059	2058	2050	2039	2033	195
15°	1940	1945	1940	1931	1918	547
25°	1723	1736	1744	1732	1717	789
35°	1386	1405	1469	1477	1471	868
45°	1073	1091	1127	1178	1185	828
55°	752	764	801	846	870	671
65°	440	452	479	513	542	437
75°	177	186	200	209	221	193
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2061.2	2061.2	2061.2	2061.2	2061.2
2.5°	2066.7	2067.5	2062.8	2050.1	2042.2
5°	2058.8	2058.0	2050.1	2039.0	2032.7
7.5°	2035.8	2037.4	2035.0	2019.2	2010.5
10°	2013.7	2014.5	2008.1	1995.4	1985.2
12.5°	1985.2	1984.4	1975.7	1969.3	1952.7
15°	1940.0	1944.8	1940.0	1931.3	1917.8
17.5°	1896.5	1896.5	1899.6	1884.6	1874.3
20°	1847.4	1849.7	1849.7	1837.9	1826.0
22.5°	1790.4	1797.5	1799.9	1787.2	1772.9
25°	1723.1	1736.5	1744.4	1731.8	1716.7
27.5°	1641.5	1662.1	1685.8	1676.3	1659.7
30°	1550.4	1580.5	1620.1	1612.2	1600.3
32.5°	1464.1	1494.2	1548.8	1545.7	1539.3
35°	1385.7	1404.7	1468.9	1476.8	1471.2
37.5°	1311.3	1328.7	1388.9	1407.1	1402.4
40°	1232.9	1251.9	1299.4	1331.9	1333.5
42.5°	1155.3	1173.5	1212.3	1259.0	1259.0
45°	1072.9	1091.2	1126.8	1178.3	1184.6
47.5°	992.2	1011.2	1046.0	1097.5	1107.8
50°	913.0	930.4	965.3	1015.1	1031.0
52.5°	830.6	849.6	883.7	929.6	952.6
55°	751.5	764.1	801.3	845.7	870.2
57.5°	669.1	681.0	723.0	761.0	786.3
60°	589.9	605.0	637.4	676.2	705.5
62.5°	513.9	529.7	557.5	591.5	624.8
65°	440.3	452.1	479.1	513.1	542.4
67.5°	369.0	379.3	406.2	430.0	460.9
70°	296.9	310.4	330.2	353.2	373.0
72.5°	239.1	244.7	261.3	277.9	298.5
75°	176.6	186.1	199.5	209.0	220.9
77.5°	126.7	132.2	140.2	148.1	159.2
80°	84.7	87.1	94.2	95.8	104.5
82.5°	51.5	53.1	54.6	55.4	58.6
85°	27.7	27.7	27.7	26.1	26.1
87.5°	15.8	15.8	13.5	11.1	7.9
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)