

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: P555481

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-88-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: P555481
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-LD4-3HI-35-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

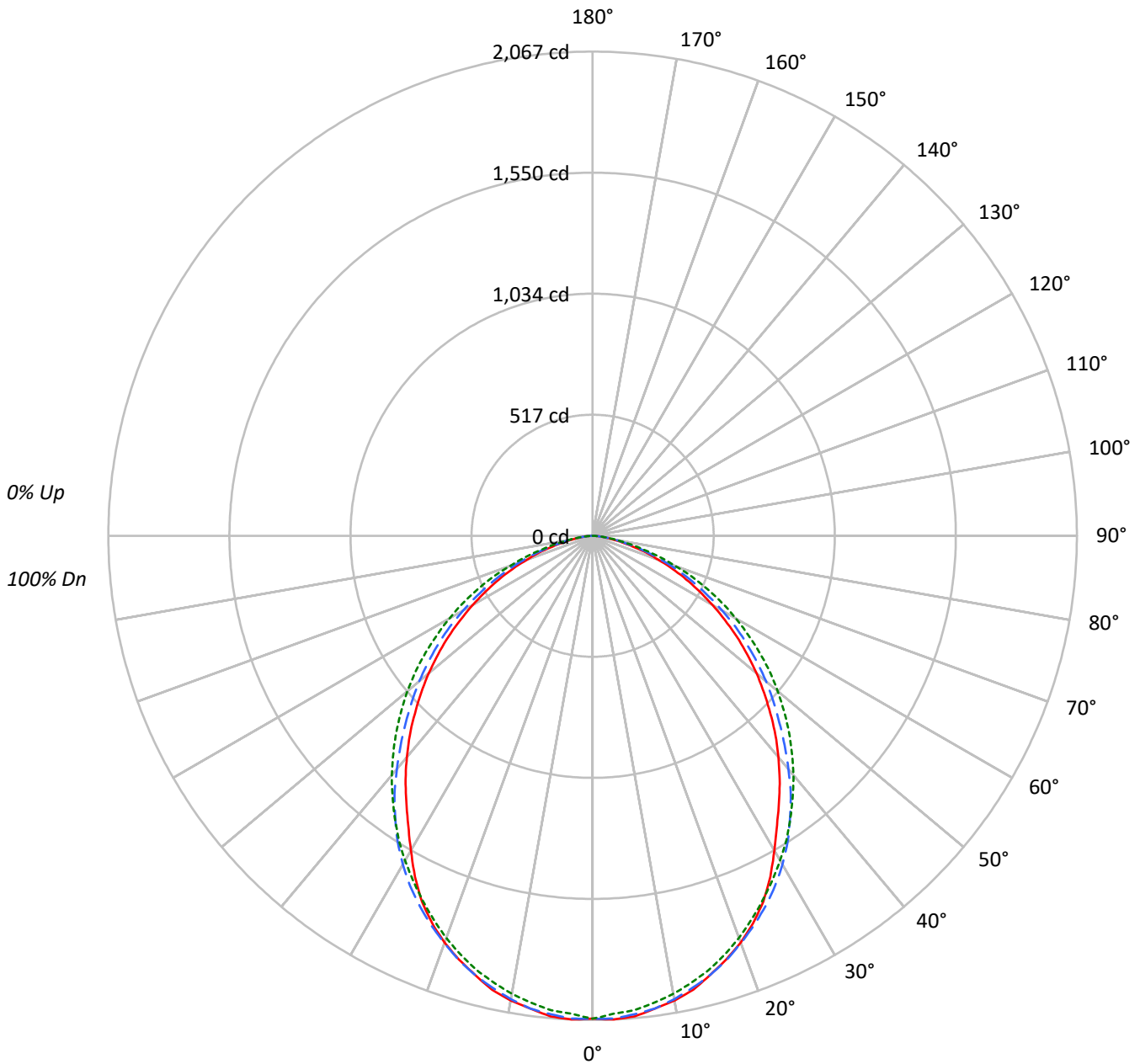
Lumens per Lamp: N/A
Luminaire Lumens: 4767.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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									
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°	11095	11095	11095
5°	11125	11078	10984
10°	11007	10976	10851
15°	10812	10812	10688
20°	10583	10596	10460
25°	10234	10361	10197
30°	9638	10071	9948
35°	9106	9653	9669
40°	8664	9131	9370
45°	8168	8578	9018
50°	7646	8084	8634
55°	7052	7521	8167
60°	6351	6863	7596
65°	5608	6103	6909
70°	4674	5198	5869
75°	3672	4151	4596
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°	545.3	11.4
20°-30°	796.9	16.7
30°-40°	904.5	19.0
40°-50°	873.2	18.3
50°-60°	720.3	15.1
60°-70°	479.7	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°	1536.3	32.2
0°-40°	2440.8	51.2
0°-60°	4034.3	84.6
0°-90°	4767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2062	2062	2062	2062	2062	
5°	2059	2058	2050	2039	2033	195
15°	1940	1945	1940	1932	1918	547
25°	1723	1737	1745	1732	1717	789
35°	1386	1405	1469	1477	1472	868
45°	1073	1091	1127	1178	1185	828
55°	752	764	802	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°	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2067.1	2067.9	2063.2	2050.5	2042.6
5°	2059.2	2058.4	2050.5	2039.4	2033.1
7.5°	2036.3	2037.8	2035.5	2019.6	2010.9
10°	2014.1	2014.9	2008.5	1995.9	1985.6
12.5°	1985.6	1984.8	1976.1	1969.7	1953.1
15°	1940.4	1945.2	1940.4	1931.7	1918.3
17.5°	1896.9	1896.9	1900.0	1885.0	1874.7
20°	1847.8	1850.1	1850.1	1838.3	1826.4
22.5°	1790.7	1797.9	1800.2	1787.6	1773.3
25°	1723.4	1736.9	1744.8	1732.1	1717.1
27.5°	1641.8	1662.4	1686.2	1676.7	1660.1
30°	1550.8	1580.9	1620.5	1612.5	1600.7
32.5°	1464.4	1494.5	1549.2	1546.0	1539.7
35°	1386.0	1405.0	1469.2	1477.1	1471.6
37.5°	1311.6	1329.0	1389.2	1407.4	1402.7
40°	1233.2	1252.2	1299.7	1332.2	1333.7
42.5°	1155.5	1173.8	1212.6	1259.3	1259.3
45°	1073.2	1091.4	1127.0	1178.5	1184.8
47.5°	992.4	1011.4	1046.2	1097.7	1108.0
50°	913.2	930.6	965.5	1015.4	1031.2
52.5°	830.8	849.8	883.9	929.8	952.8
55°	751.6	764.3	801.5	845.9	870.4
57.5°	669.2	681.1	723.1	761.1	786.5
60°	590.0	605.1	637.6	676.4	705.7
62.5°	514.0	529.9	557.6	591.6	624.9
65°	440.4	452.2	479.2	513.2	542.5
67.5°	369.1	379.4	406.3	430.1	461.0
70°	297.0	310.5	330.3	353.2	373.0
72.5°	239.2	244.7	261.4	278.0	298.6
75°	176.6	186.1	199.6	209.1	221.0
77.5°	126.7	132.3	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)