

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: P555399

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-87-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: P555399
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-30-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

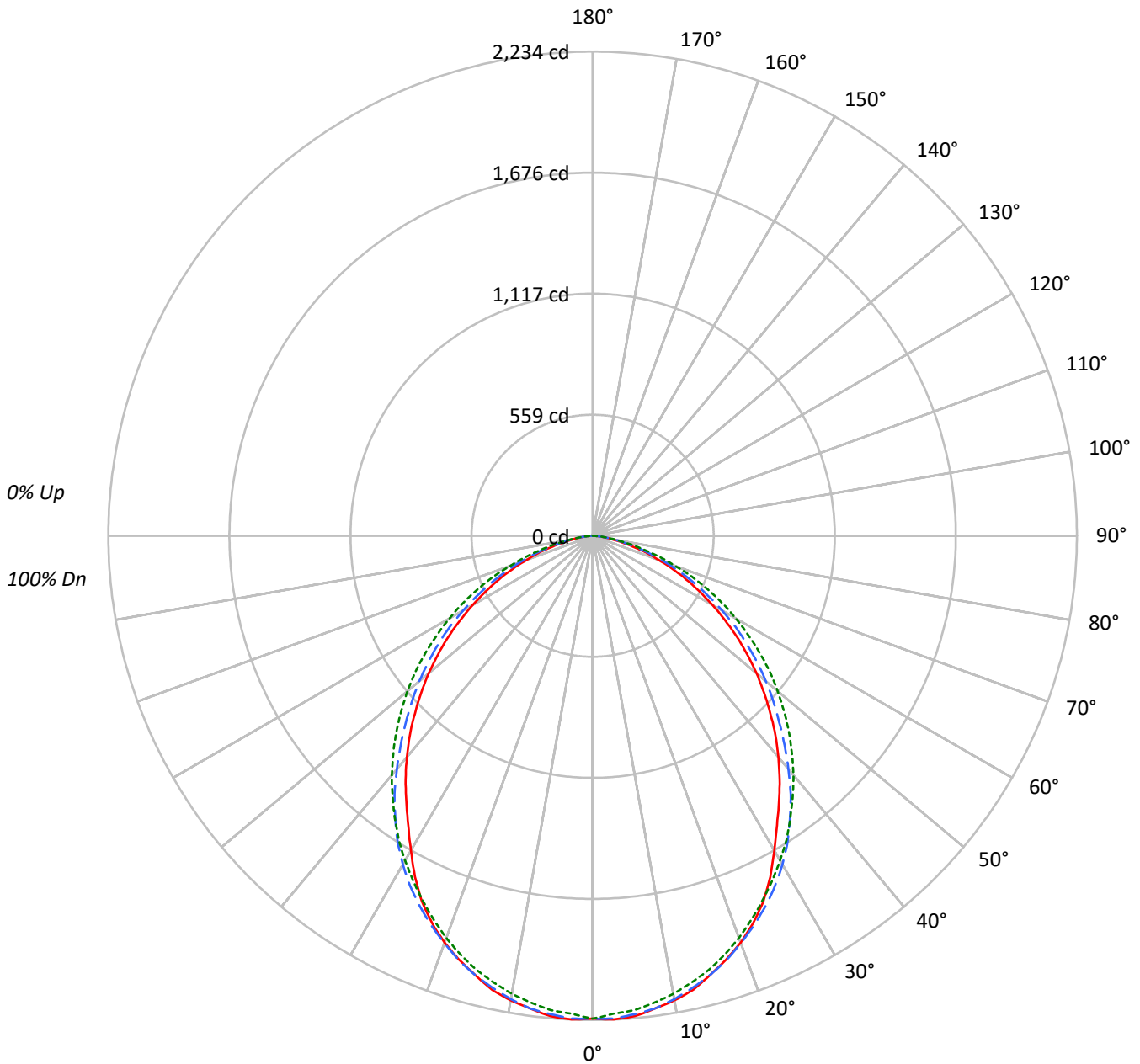
Lumens per Lamp: N/A
Luminaire Lumens: 5152.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					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°	11992	11992	11992
5°	12023	11973	11871
10°	11896	11863	11727
15°	11685	11685	11551
20°	11438	11452	11305
25°	11061	11198	11020
30°	10416	10884	10751
35°	9842	10432	10449
40°	9364	9869	10127
45°	8828	9271	9746
50°	8263	8736	9332
55°	7622	8128	8827
60°	6864	7417	8210
65°	6060	6595	7466
70°	5051	5616	6345
75°	3970	4485	4966
80°	2839	3158	3502
85°	1853	1853	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	4.1
10°-20°	589.3	11.4
20°-30°	861.2	16.7
30°-40°	977.6	19.0
40°-50°	943.7	18.3
50°-60°	778.5	15.1
60°-70°	518.4	10.1
70°-80°	232.0	4.5
80°-90°	41.5	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°	1660.3	32.2
0°-40°	2637.9	51.2
0°-60°	4360.1	84.6
0°-90°	5152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2226	2225	2216	2204	2197	211
15°	2097	2102	2097	2088	2073	591
25°	1863	1877	1886	1872	1856	853
35°	1498	1518	1588	1596	1590	939
45°	1160	1180	1218	1274	1280	895
55°	812	826	866	914	941	725
65°	476	489	518	555	586	472
75°	191	201	216	226	239	209
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2228.1	2228.1	2228.1	2228.1	2228.1
2.5°	2234.1	2235.0	2229.8	2216.1	2207.6
5°	2225.5	2224.7	2216.1	2204.1	2197.3
7.5°	2200.7	2202.4	2199.9	2182.7	2173.3
10°	2176.7	2177.6	2170.8	2157.1	2145.9
12.5°	2145.9	2145.1	2135.7	2128.8	2110.8
15°	2097.1	2102.3	2097.1	2087.7	2073.2
17.5°	2050.1	2050.1	2053.5	2037.2	2026.1
20°	1997.0	1999.6	1999.6	1986.7	1973.9
22.5°	1935.4	1943.1	1945.6	1931.9	1916.5
25°	1862.6	1877.2	1885.7	1872.0	1855.8
27.5°	1774.4	1796.7	1822.4	1812.1	1794.1
30°	1676.0	1708.5	1751.3	1742.8	1729.9
32.5°	1582.7	1615.2	1674.3	1670.9	1664.0
35°	1498.0	1518.5	1587.8	1596.4	1590.4
37.5°	1417.5	1436.3	1501.4	1521.1	1515.9
40°	1332.8	1353.3	1404.7	1439.8	1441.5
42.5°	1248.9	1268.6	1310.5	1361.0	1361.0
45°	1159.8	1179.5	1218.1	1273.7	1280.5
47.5°	1072.5	1093.1	1130.7	1186.4	1197.5
50°	986.9	1005.8	1043.4	1097.4	1114.5
52.5°	897.9	918.5	955.3	1004.9	1029.7
55°	812.3	826.0	866.2	914.2	940.7
57.5°	723.3	736.1	781.5	822.6	850.0
60°	637.7	654.0	689.1	731.0	762.7
62.5°	555.5	572.6	602.6	639.4	675.4
65°	475.9	488.8	517.9	554.7	586.3
67.5°	398.9	410.0	439.1	464.8	498.2
70°	321.0	335.5	356.9	381.8	403.2
72.5°	258.5	264.5	282.5	300.4	322.7
75°	190.9	201.2	215.7	226.0	238.8
77.5°	137.0	142.9	151.5	160.1	172.1
80°	91.6	94.2	101.9	103.6	113.0
82.5°	55.6	57.4	59.1	59.9	63.3
85°	30.0	30.0	30.0	28.2	28.2
87.5°	17.1	17.1	14.6	12.0	8.6
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)