

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: P555493

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-86-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: P555493
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-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

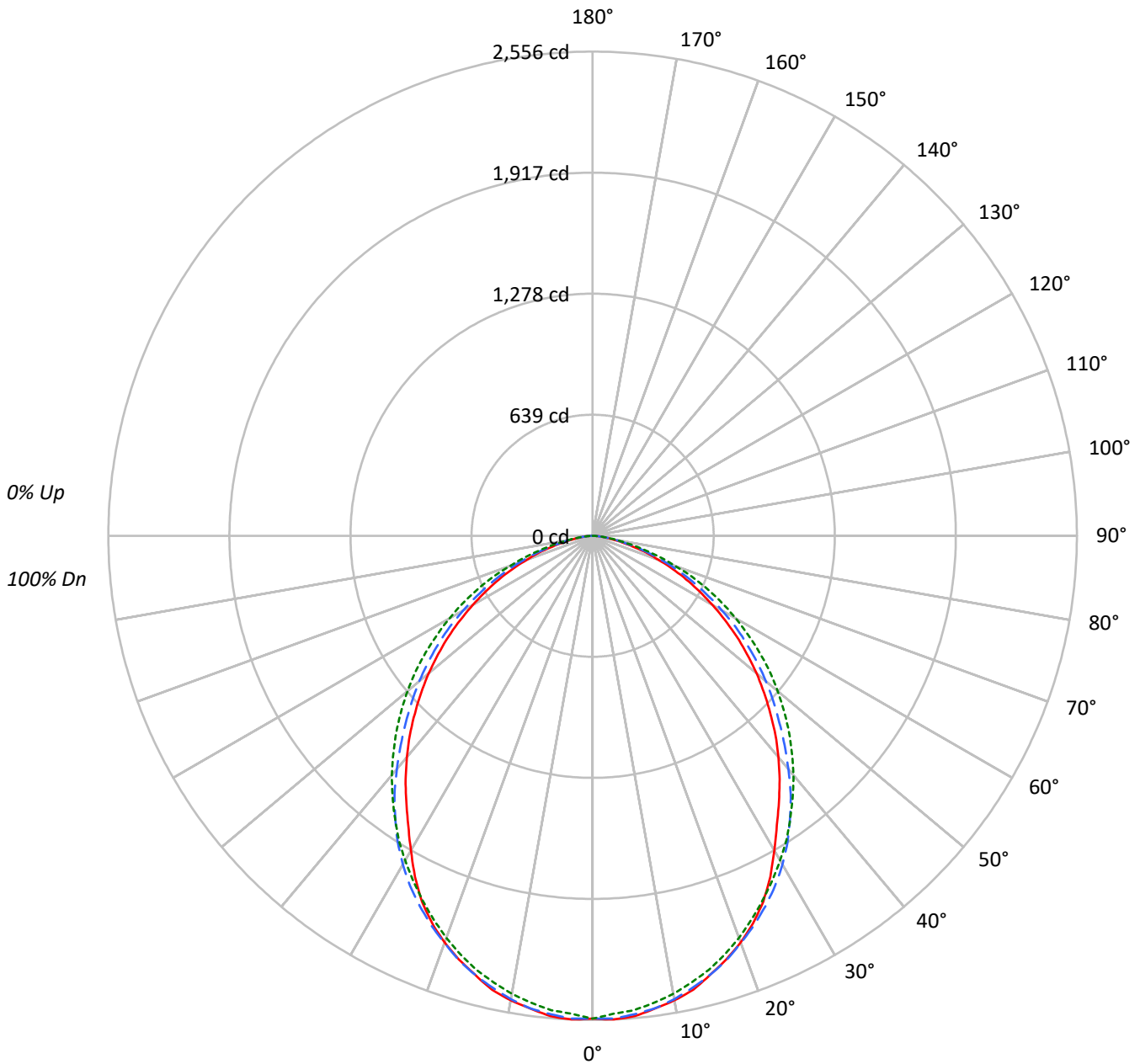
Lumens per Lamp: N/A
Luminaire Lumens: 5894.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	13719	13719	13719
5°	13755	13697	13580
10°	13609	13572	13417
15°	13368	13368	13215
20°	13085	13101	12934
25°	12654	12811	12607
30°	11916	12451	12299
35°	11259	11935	11954
40°	10712	11290	11586
45°	10099	10606	11150
50°	9454	9995	10675
55°	8720	9299	10098
60°	7852	8485	9392
65°	6934	7544	8543
70°	5778	6425	7257
75°	4541	5132	5681
80°	3248	3611	4007
85°	2118	2118	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	4.1
10°-20°	674.2	11.4
20°-30°	985.3	16.7
30°-40°	1118.4	19.0
40°-50°	1079.6	18.3
50°-60°	890.6	15.1
60°-70°	593.1	10.1
70°-80°	265.4	4.5
80°-90°	47.5	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°	1899.5	32.2
0°-40°	3017.8	51.2
0°-60°	4988.0	84.6
0°-90°	5894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2549	2549	2549	2549	2549	
5°	2546	2545	2535	2522	2514	241
15°	2399	2405	2399	2388	2372	676
25°	2131	2148	2157	2142	2123	976
35°	1714	1737	1816	1826	1820	1074
45°	1327	1349	1394	1457	1465	1024
55°	929	945	991	1046	1076	829
65°	544	559	592	635	671	540
75°	218	230	247	258	273	239
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2549.0	2549.0	2549.0	2549.0	2549.0
2.5°	2555.9	2556.8	2551.0	2535.3	2525.5
5°	2546.1	2545.1	2535.3	2521.6	2513.7
7.5°	2517.7	2519.6	2516.7	2497.1	2486.3
10°	2490.2	2491.2	2483.4	2467.7	2455.0
12.5°	2455.0	2454.0	2443.2	2435.4	2414.8
15°	2399.2	2405.1	2399.2	2388.4	2371.8
17.5°	2345.3	2345.3	2349.2	2330.6	2317.9
20°	2284.6	2287.5	2287.5	2272.9	2258.2
22.5°	2214.1	2222.9	2225.8	2210.2	2192.6
25°	2130.9	2147.5	2157.3	2141.6	2123.0
27.5°	2030.0	2055.5	2084.8	2073.1	2052.5
30°	1917.4	1954.6	2003.6	1993.8	1979.1
32.5°	1810.6	1847.9	1915.4	1911.5	1903.7
35°	1713.7	1737.2	1816.5	1826.3	1819.5
37.5°	1621.6	1643.2	1717.6	1740.1	1734.3
40°	1524.7	1548.2	1607.0	1647.1	1649.1
42.5°	1428.7	1451.3	1499.2	1557.0	1557.0
45°	1326.9	1349.4	1393.5	1457.1	1465.0
47.5°	1227.0	1250.5	1293.6	1357.2	1370.0
50°	1129.1	1150.6	1193.7	1255.4	1275.0
52.5°	1027.2	1050.7	1092.8	1149.6	1178.0
55°	929.3	945.0	991.0	1045.8	1076.2
57.5°	827.5	842.2	894.1	941.1	972.4
60°	729.5	748.2	788.3	836.3	872.5
62.5°	635.5	655.1	689.4	731.5	772.6
65°	544.5	559.2	592.4	634.6	670.8
67.5°	456.3	469.1	502.4	531.7	569.9
70°	367.2	383.9	408.3	436.7	461.2
72.5°	295.7	302.6	323.2	343.7	369.2
75°	218.4	230.1	246.8	258.5	273.2
77.5°	156.7	163.5	173.3	183.1	196.8
80°	104.8	107.7	116.5	118.5	129.3
82.5°	63.7	65.6	67.6	68.5	72.5
85°	34.3	34.3	34.3	32.3	32.3
87.5°	19.6	19.6	16.6	13.7	9.8
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)