

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: P555491

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-85-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: P555491
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

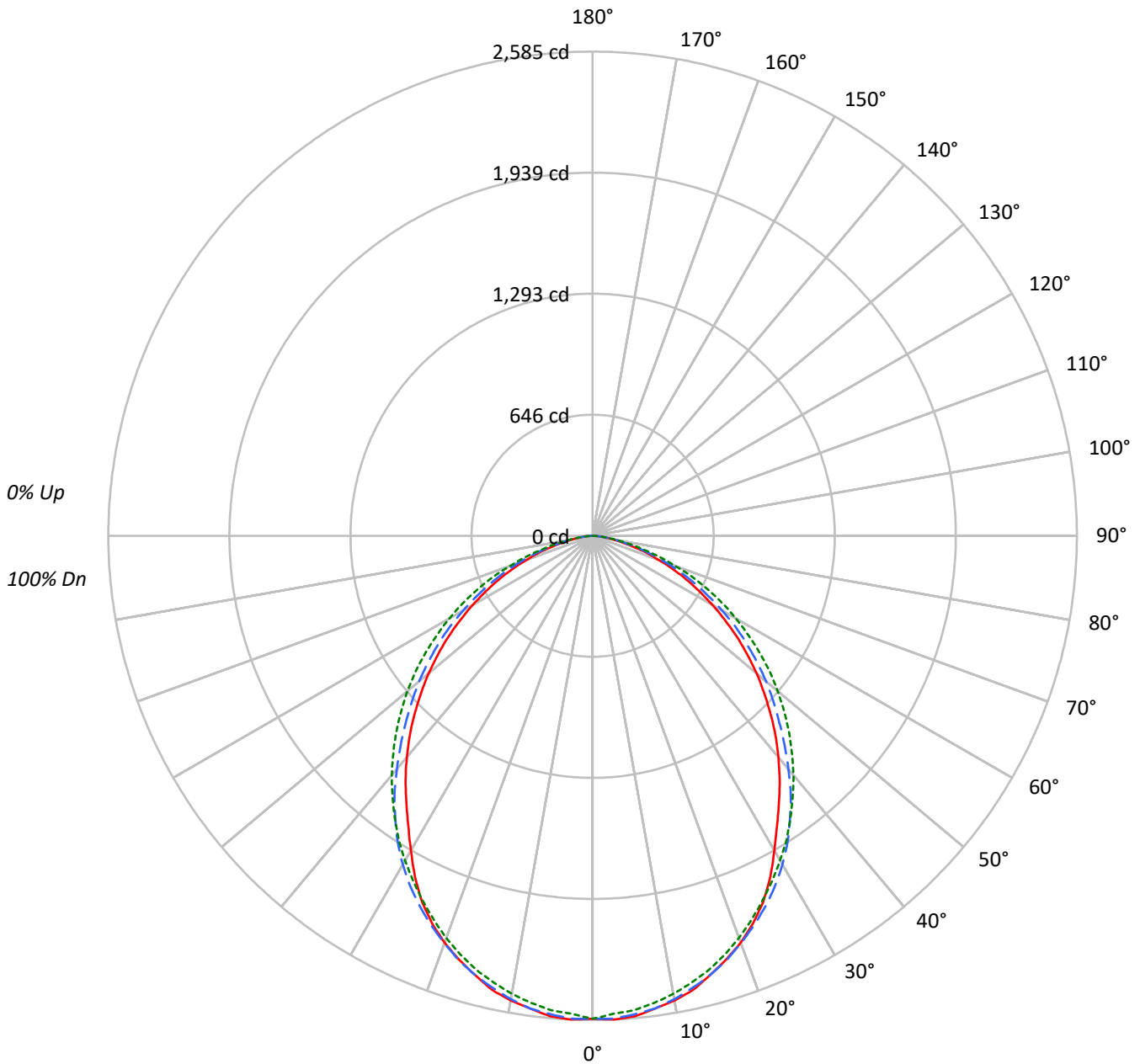
Lumens per Lamp: N/A
Luminaire Lumens: 5962.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555491

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-85-EDD

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°	13877	13877	13877
5°	13914	13855	13738
10°	13766	13728	13571
15°	13522	13522	13367
20°	13236	13253	13082
25°	12799	12959	12753
30°	12053	12595	12441
35°	11389	12073	12092
40°	10836	11420	11719
45°	10216	10729	11279
50°	9563	10110	10798
55°	8820	9406	10215
60°	7944	8583	9500
65°	7013	7632	8641
70°	5846	6500	7342
75°	4593	5190	5748
80°	3285	3654	4054
85°	2143	2143	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	4.1
10°-20°	682.0	11.4
20°-30°	996.6	16.7
30°-40°	1131.3	19.0
40°-50°	1092.1	18.3
50°-60°	900.9	15.1
60°-70°	599.9	10.1
70°-80°	268.5	4.5
80°-90°	48.0	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°	1921.4	32.2
0°-40°	3052.7	51.2
0°-60°	5045.6	84.6
0°-90°	5962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2575	2574	2564	2551	2543	244
15°	2427	2433	2427	2416	2399	684
25°	2155	2172	2182	2166	2148	987
35°	1734	1757	1838	1847	1840	1086
45°	1342	1365	1410	1474	1482	1036
55°	940	956	1002	1058	1089	839
65°	551	566	599	642	678	546
75°	221	233	250	262	276	242
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.4	2578.4	2578.4	2578.4	2578.4
2.5°	2585.3	2586.3	2580.4	2564.5	2554.6
5°	2575.4	2574.4	2564.5	2550.7	2542.8
7.5°	2546.7	2548.7	2545.7	2525.9	2515.0
10°	2519.0	2520.0	2512.0	2496.2	2483.3
12.5°	2483.3	2482.3	2471.4	2463.5	2442.7
15°	2426.9	2432.8	2426.9	2416.0	2399.1
17.5°	2372.4	2372.4	2376.3	2357.5	2344.6
20°	2311.0	2313.9	2313.9	2299.1	2284.2
22.5°	2239.6	2248.6	2251.5	2235.7	2217.8
25°	2155.4	2172.3	2182.2	2166.3	2147.5
27.5°	2053.4	2079.2	2108.9	2097.0	2076.2
30°	1939.5	1977.1	2026.7	2016.8	2001.9
32.5°	1831.5	1869.2	1937.5	1933.6	1925.6
35°	1733.5	1757.2	1837.5	1847.4	1840.4
37.5°	1640.4	1662.1	1737.4	1760.2	1754.3
40°	1542.3	1566.1	1625.5	1666.1	1668.1
42.5°	1445.2	1468.0	1516.5	1575.0	1575.0
45°	1342.2	1365.0	1409.6	1473.9	1481.9
47.5°	1241.2	1264.9	1308.5	1372.9	1385.8
50°	1142.1	1163.9	1207.5	1269.9	1289.7
52.5°	1039.1	1062.9	1105.5	1162.9	1191.6
55°	940.0	955.9	1002.4	1057.9	1088.6
57.5°	837.0	851.9	904.4	951.9	983.6
60°	738.0	756.8	797.4	845.9	882.6
62.5°	642.9	662.7	697.3	739.9	781.5
65°	550.7	565.6	599.3	641.9	678.5
67.5°	461.6	474.5	508.2	537.9	576.5
70°	371.5	388.3	413.1	441.8	466.6
72.5°	299.1	306.1	326.9	347.7	373.4
75°	220.9	232.8	249.6	261.5	276.4
77.5°	158.5	165.4	175.3	185.2	199.1
80°	106.0	109.0	117.9	119.9	130.8
82.5°	64.4	66.4	68.3	69.3	73.3
85°	34.7	34.7	34.7	32.7	32.7
87.5°	19.8	19.8	16.8	13.9	9.9
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)