

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: P555426

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-85-EDD-90**

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: P555426  
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-93-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

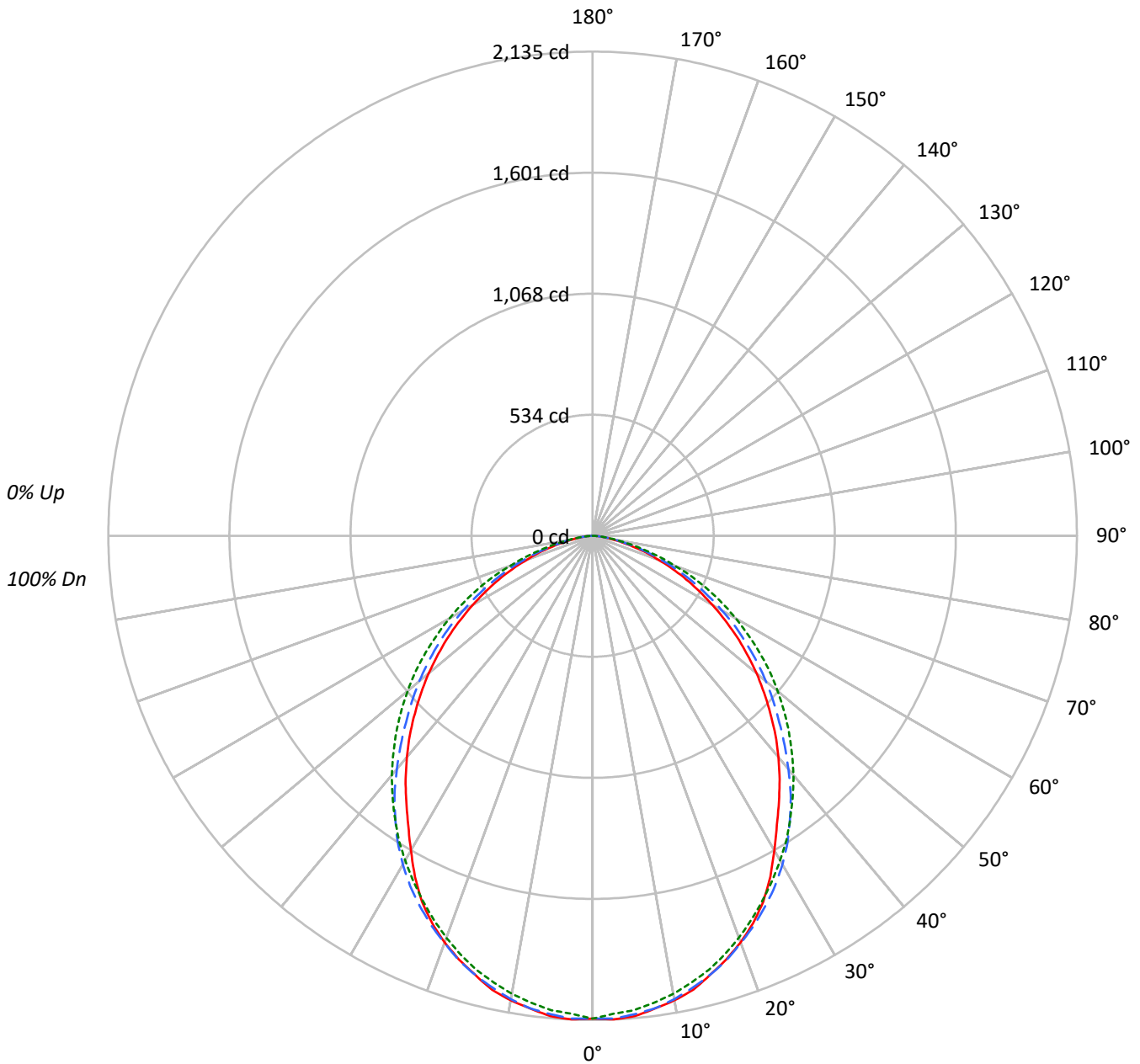
Lumens per Lamp: N/A  
Luminaire Lumens: 4923.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11459	11459	11459
5°	11489	11440	11343
10°	11367	11336	11206
15°	11165	11165	11038
20°	10929	10943	10802
25°	10569	10700	10530
30°	9953	10400	10273
35°	9405	9969	9985
40°	8947	9430	9677
45°	8436	8859	9313
50°	7896	8349	8916
55°	7283	7766	8435
60°	6560	7087	7845
65°	5792	6301	7135
70°	4826	5367	6061
75°	3793	4286	4745
80°	2712	3016	3347
85°	1766	1766	1667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.5	4.1
10°-20°	563.1	11.4
20°-30°	822.9	16.7
30°-40°	934.1	19.0
40°-50°	901.8	18.3
50°-60°	743.9	15.1
60°-70°	495.4	10.1
70°-80°	221.7	4.5
80°-90°	39.7	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°	1586.5	32.2
0°-40°	2520.7	51.2
0°-60°	4166.3	84.6
0°-90°	4923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2127	2126	2118	2106	2100	201
15°	2004	2009	2004	1995	1981	565
25°	1780	1794	1802	1789	1773	815
35°	1431	1451	1517	1525	1520	897
45°	1108	1127	1164	1217	1224	855
55°	776	789	828	874	899	693
65°	455	467	495	530	560	451
75°	182	192	206	216	228	199
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2129.1	2129.1	2129.1	2129.1	2129.1
2.5°	2134.8	2135.6	2130.7	2117.6	2109.4
5°	2126.6	2125.8	2117.6	2106.2	2099.6
7.5°	2102.9	2104.5	2102.1	2085.7	2076.7
10°	2080.0	2080.8	2074.3	2061.2	2050.5
12.5°	2050.5	2049.7	2040.7	2034.2	2017.0
15°	2003.9	2008.8	2003.9	1994.9	1981.0
17.5°	1958.9	1958.9	1962.2	1946.7	1936.0
20°	1908.2	1910.7	1910.7	1898.4	1886.1
22.5°	1849.3	1856.7	1859.2	1846.1	1831.3
25°	1779.8	1793.7	1801.9	1788.8	1773.3
27.5°	1695.6	1716.8	1741.4	1731.6	1714.4
30°	1601.5	1632.6	1673.5	1665.3	1653.0
32.5°	1512.4	1543.4	1599.9	1596.6	1590.1
35°	1431.4	1451.0	1517.3	1525.4	1519.7
37.5°	1354.5	1372.5	1434.6	1453.5	1448.6
40°	1273.5	1293.1	1342.2	1375.8	1377.4
42.5°	1193.4	1212.2	1252.2	1300.5	1300.5
45°	1108.3	1127.1	1163.9	1217.1	1223.6
47.5°	1024.9	1044.5	1080.5	1133.7	1144.3
50°	943.1	961.1	997.1	1048.6	1064.9
52.5°	858.0	877.6	912.8	960.2	984.0
55°	776.2	789.3	827.7	873.5	898.9
57.5°	691.2	703.4	746.8	786.0	812.2
60°	609.4	624.9	658.4	698.5	728.8
62.5°	530.8	547.2	575.8	611.0	645.3
65°	454.8	467.0	494.8	530.0	560.3
67.5°	381.2	391.8	419.6	444.1	476.0
70°	306.7	320.6	341.1	364.8	385.2
72.5°	247.0	252.7	269.9	287.1	308.4
75°	182.4	192.2	206.1	215.9	228.2
77.5°	130.9	136.6	144.8	153.0	164.4
80°	87.5	90.0	97.3	99.0	108.0
82.5°	53.2	54.8	56.4	57.3	60.5
85°	28.6	28.6	28.6	27.0	27.0
87.5°	16.4	16.4	13.9	11.5	8.2
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)