

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: P555594

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-94-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: P555594
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-50-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

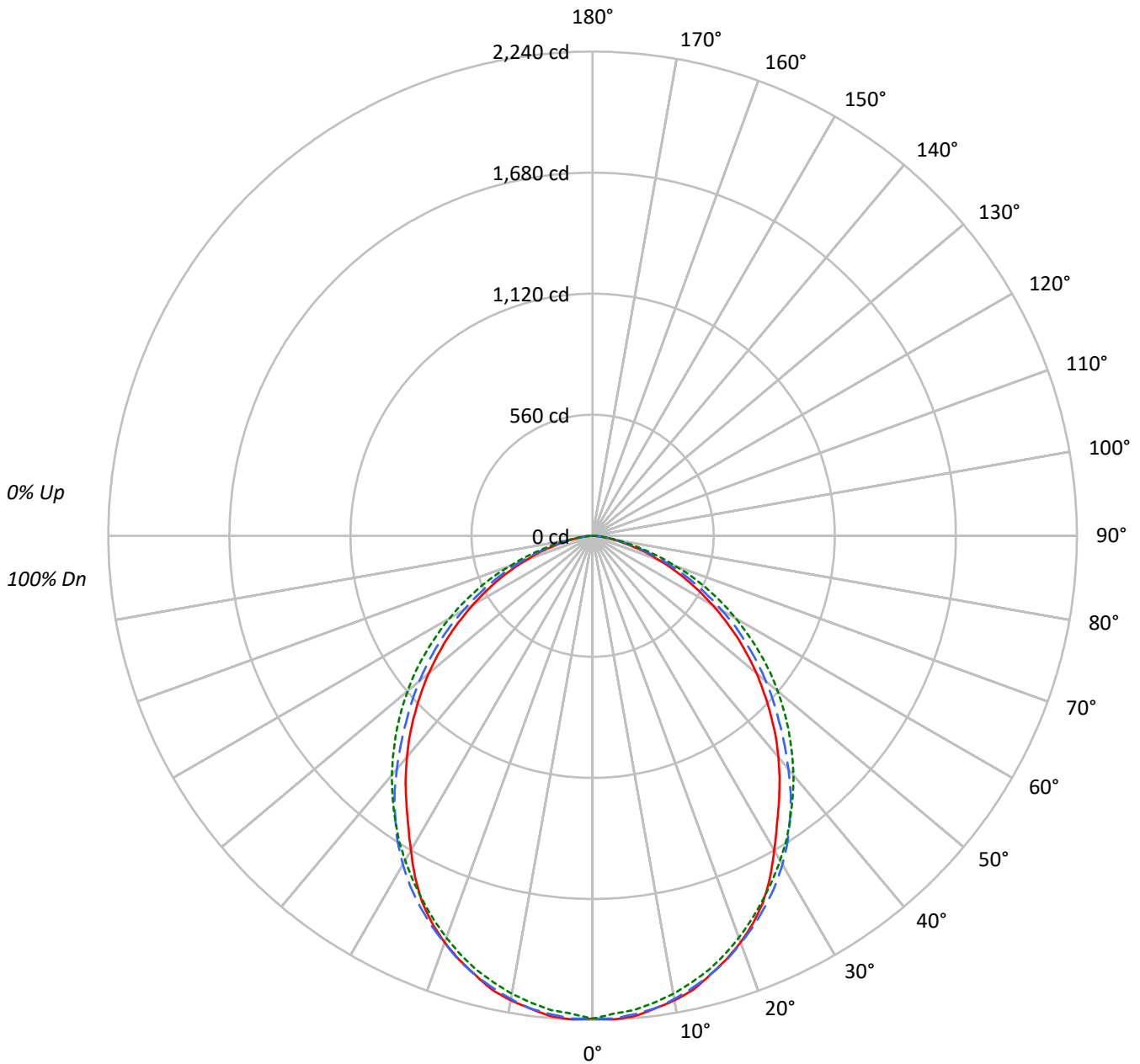
Lumens per Lamp: N/A
Luminaire Lumens: 5165.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	12022	12022	12022
5°	12054	12003	11901
10°	11926	11893	11757
15°	11714	11714	11580
20°	11466	11481	11334
25°	11089	11226	11048
30°	10442	10911	10778
35°	9866	10458	10475
40°	9387	9894	10153
45°	8850	9294	9771
50°	8284	8759	9355
55°	7642	8148	8849
60°	6881	7436	8230
65°	6076	6612	7486
70°	5064	5630	6360
75°	3980	4498	4978
80°	2845	3164	3512
85°	1853	1853	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	4.1
10°-20°	590.8	11.4
20°-30°	863.4	16.7
30°-40°	980.0	19.0
40°-50°	946.1	18.3
50°-60°	780.5	15.1
60°-70°	519.7	10.1
70°-80°	232.6	4.5
80°-90°	41.6	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°	1664.5	32.2
0°-40°	2644.6	51.2
0°-60°	4371.1	84.6
0°-90°	5165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2231	2230	2222	2210	2203	211
15°	2102	2108	2102	2093	2078	593
25°	1867	1882	1890	1877	1860	855
35°	1502	1522	1592	1600	1594	941
45°	1163	1182	1221	1277	1284	897
55°	814	828	868	916	943	727
65°	477	490	519	556	588	473
75°	191	202	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°	2233.7	2233.7	2233.7	2233.7	2233.7
2.5°	2239.7	2240.6	2235.4	2221.7	2213.1
5°	2231.2	2230.3	2221.7	2209.7	2202.8
7.5°	2206.3	2208.0	2205.4	2188.2	2178.8
10°	2182.2	2183.1	2176.2	2162.5	2151.3
12.5°	2151.3	2150.5	2141.1	2134.2	2116.2
15°	2102.4	2107.6	2102.4	2093.0	2078.4
17.5°	2055.2	2055.2	2058.7	2042.4	2031.2
20°	2002.0	2004.6	2004.6	1991.7	1978.9
22.5°	1940.2	1948.0	1950.5	1936.8	1921.4
25°	1867.3	1881.9	1890.5	1876.7	1860.4
27.5°	1778.9	1801.2	1827.0	1816.7	1798.7
30°	1680.2	1712.8	1755.7	1747.2	1734.3
32.5°	1586.7	1619.3	1678.5	1675.1	1668.2
35°	1501.7	1522.3	1591.8	1600.4	1594.4
37.5°	1421.1	1440.0	1505.2	1524.9	1519.8
40°	1336.1	1356.7	1408.2	1443.4	1445.1
42.5°	1252.0	1271.8	1313.8	1364.4	1364.4
45°	1162.8	1182.5	1221.1	1276.9	1283.8
47.5°	1075.2	1095.8	1133.6	1189.4	1200.5
50°	989.4	1008.3	1046.1	1100.1	1117.3
52.5°	900.2	920.8	957.7	1007.5	1032.3
55°	814.4	828.1	868.4	916.5	943.1
57.5°	725.1	738.0	783.5	824.7	852.1
60°	639.3	655.6	690.8	732.8	764.6
62.5°	556.9	574.1	604.1	641.0	677.1
65°	477.1	490.0	519.2	556.1	587.8
67.5°	399.9	411.0	440.2	466.0	499.4
70°	321.8	336.4	357.8	382.7	404.2
72.5°	259.2	265.2	283.2	301.2	323.5
75°	191.4	201.7	216.3	226.5	239.4
77.5°	137.3	143.3	151.9	160.5	172.5
80°	91.8	94.4	102.1	103.8	113.3
82.5°	55.8	57.5	59.2	60.1	63.5
85°	30.0	30.0	30.0	28.3	28.3
87.5°	17.2	17.2	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)