

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: P555562

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-94-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: P555562
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-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

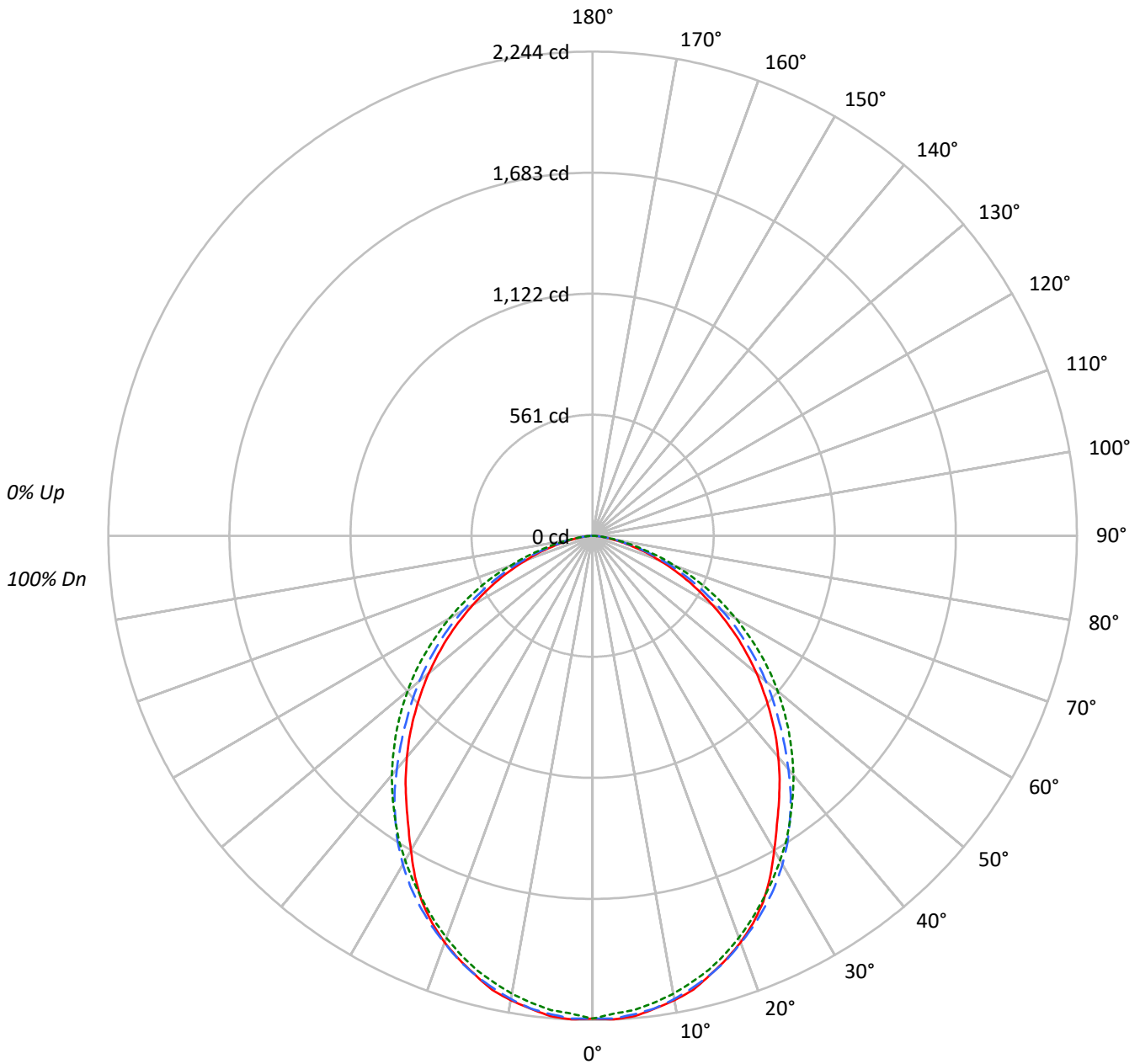
Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12043	12043	12043
5°	12075	12024	11922
10°	11946	11914	11778
15°	11735	11735	11601
20°	11486	11501	11353
25°	11108	11246	11067
30°	10460	10930	10797
35°	9884	10477	10494
40°	9403	9911	10170
45°	8866	9311	9788
50°	8299	8774	9371
55°	7655	8162	8864
60°	6893	7449	8244
65°	6087	6623	7498
70°	5073	5641	6371
75°	3986	4504	4986
80°	2851	3171	3518
85°	1859	1859	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	4.1
10°-20°	591.9	11.4
20°-30°	864.9	16.7
30°-40°	981.8	19.0
40°-50°	947.7	18.3
50°-60°	781.8	15.1
60°-70°	520.6	10.1
70°-80°	233.0	4.5
80°-90°	41.7	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°	1667.4	32.2
0°-40°	2649.2	51.2
0°-60°	4378.7	84.6
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2235	2234	2226	2214	2207	212
15°	2106	2111	2106	2097	2082	594
25°	1871	1885	1894	1880	1864	857
35°	1504	1525	1595	1603	1597	943
45°	1165	1185	1223	1279	1286	899
55°	816	830	870	918	945	728
65°	478	491	520	557	589	474
75°	192	202	217	227	240	210
85°	30	30	30	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.6	2237.6	2237.6	2237.6	2237.6
2.5°	2243.6	2244.5	2239.3	2225.6	2217.0
5°	2235.0	2234.2	2225.6	2213.6	2206.7
7.5°	2210.1	2211.8	2209.3	2192.1	2182.6
10°	2186.0	2186.9	2180.0	2166.3	2155.1
12.5°	2155.1	2154.2	2144.8	2137.9	2119.9
15°	2106.1	2111.3	2106.1	2096.6	2082.0
17.5°	2058.8	2058.8	2062.3	2045.9	2034.7
20°	2005.5	2008.1	2008.1	1995.2	1982.3
22.5°	1943.6	1951.4	1953.9	1940.2	1924.7
25°	1870.6	1885.2	1893.8	1880.0	1863.7
27.5°	1782.0	1804.4	1830.2	1819.8	1801.8
30°	1683.2	1715.8	1758.8	1750.2	1737.3
32.5°	1589.5	1622.1	1681.4	1678.0	1671.1
35°	1504.4	1525.0	1594.6	1603.2	1597.2
37.5°	1423.6	1442.5	1507.8	1527.6	1522.4
40°	1338.4	1359.1	1410.7	1445.9	1447.6
42.5°	1254.2	1274.0	1316.1	1366.8	1366.8
45°	1164.8	1184.6	1223.3	1279.1	1286.0
47.5°	1077.1	1097.7	1135.6	1191.4	1202.6
50°	991.2	1010.1	1047.9	1102.0	1119.2
52.5°	901.8	922.4	959.3	1009.2	1034.1
55°	815.8	829.5	869.9	918.1	944.7
57.5°	726.4	739.3	784.8	826.1	853.6
60°	640.4	656.8	692.0	734.1	765.9
62.5°	557.9	575.1	605.2	642.1	678.2
65°	478.0	490.8	520.1	557.0	588.8
67.5°	400.6	411.8	441.0	466.8	500.3
70°	322.4	337.0	358.5	383.4	404.9
72.5°	259.6	265.6	283.7	301.7	324.1
75°	191.7	202.0	216.6	226.9	239.8
77.5°	137.5	143.6	152.2	160.8	172.8
80°	92.0	94.6	102.3	104.0	113.5
82.5°	55.9	57.6	59.3	60.2	63.6
85°	30.1	30.1	30.1	28.4	28.4
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)