

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: P555586

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-85-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: P555586
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

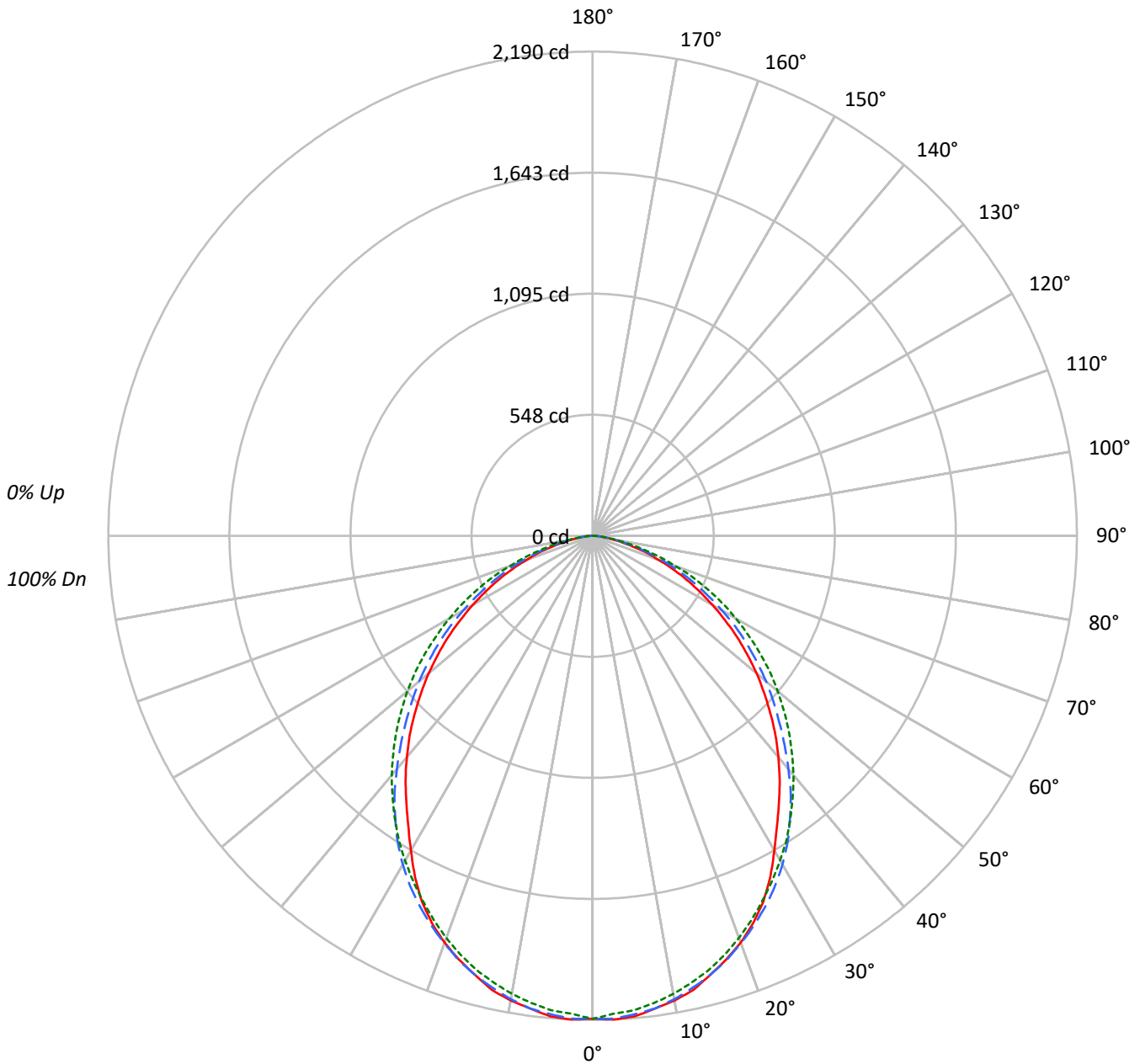
Lumens per Lamp: N/A
Luminaire Lumens: 5051.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11756	11756	11756
5°	11788	11738	11638
10°	11663	11631	11498
15°	11456	11456	11325
20°	11213	11228	11084
25°	10844	10978	10804
30°	10211	10670	10540
35°	9649	10228	10244
40°	9180	9675	9929
45°	8655	9089	9555
50°	8102	8565	9148
55°	7473	7969	8654
60°	6730	7272	8048
65°	5942	6465	7320
70°	4952	5506	6220
75°	3891	4398	4868
80°	2783	3096	3434
85°	1815	1815	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	4.1
10°-20°	577.8	11.4
20°-30°	844.3	16.7
30°-40°	958.4	19.0
40°-50°	925.2	18.3
50°-60°	763.2	15.1
60°-70°	508.2	10.1
70°-80°	227.4	4.5
80°-90°	40.7	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°	1627.8	32.2
0°-40°	2586.2	51.2
0°-60°	4274.6	84.6
0°-90°	5051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2182	2181	2173	2161	2154	207
15°	2056	2061	2056	2047	2032	580
25°	1826	1840	1849	1835	1819	836
35°	1469	1489	1557	1565	1559	920
45°	1137	1156	1194	1249	1255	877
55°	796	810	849	896	922	711
65°	467	479	508	544	575	463
75°	187	197	212	222	234	205
85°	29	29	29	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.4	2184.4	2184.4	2184.4	2184.4
2.5°	2190.3	2191.1	2186.1	2172.7	2164.3
5°	2181.9	2181.1	2172.7	2160.9	2154.2
7.5°	2157.6	2159.3	2156.7	2139.9	2130.7
10°	2134.1	2134.9	2128.2	2114.8	2103.9
12.5°	2103.9	2103.0	2093.8	2087.1	2069.5
15°	2056.0	2061.1	2056.0	2046.8	2032.5
17.5°	2009.9	2009.9	2013.2	1997.3	1986.4
20°	1957.8	1960.4	1960.4	1947.8	1935.2
22.5°	1897.4	1905.0	1907.5	1894.1	1879.0
25°	1826.1	1840.4	1848.7	1835.3	1819.4
27.5°	1739.7	1761.5	1786.6	1776.6	1759.0
30°	1643.1	1675.0	1717.0	1708.6	1696.0
32.5°	1551.7	1583.6	1641.5	1638.1	1631.4
35°	1468.6	1488.7	1556.7	1565.1	1559.2
37.5°	1389.7	1408.2	1471.9	1491.3	1486.2
40°	1306.6	1326.8	1377.1	1411.5	1413.2
42.5°	1224.4	1243.7	1284.8	1334.3	1334.3
45°	1137.1	1156.4	1194.2	1248.7	1255.4
47.5°	1051.5	1071.7	1108.6	1163.1	1174.0
50°	967.6	986.1	1023.0	1075.8	1092.6
52.5°	880.3	900.5	936.5	985.2	1009.6
55°	796.4	809.8	849.3	896.3	922.3
57.5°	709.1	721.7	766.2	806.5	833.3
60°	625.2	641.1	675.6	716.7	747.7
62.5°	544.6	561.4	590.8	626.9	662.1
65°	466.6	479.2	507.7	543.8	574.8
67.5°	391.1	402.0	430.5	455.7	488.4
70°	314.7	329.0	349.9	374.3	395.3
72.5°	253.4	259.3	276.9	294.6	316.4
75°	187.1	197.2	211.5	221.5	234.1
77.5°	134.3	140.1	148.5	156.9	168.7
80°	89.8	92.3	99.9	101.5	110.8
82.5°	54.5	56.2	57.9	58.7	62.1
85°	29.4	29.4	29.4	27.7	27.7
87.5°	16.8	16.8	14.3	11.7	8.4
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)