

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: P555409

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-84-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: P555409
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

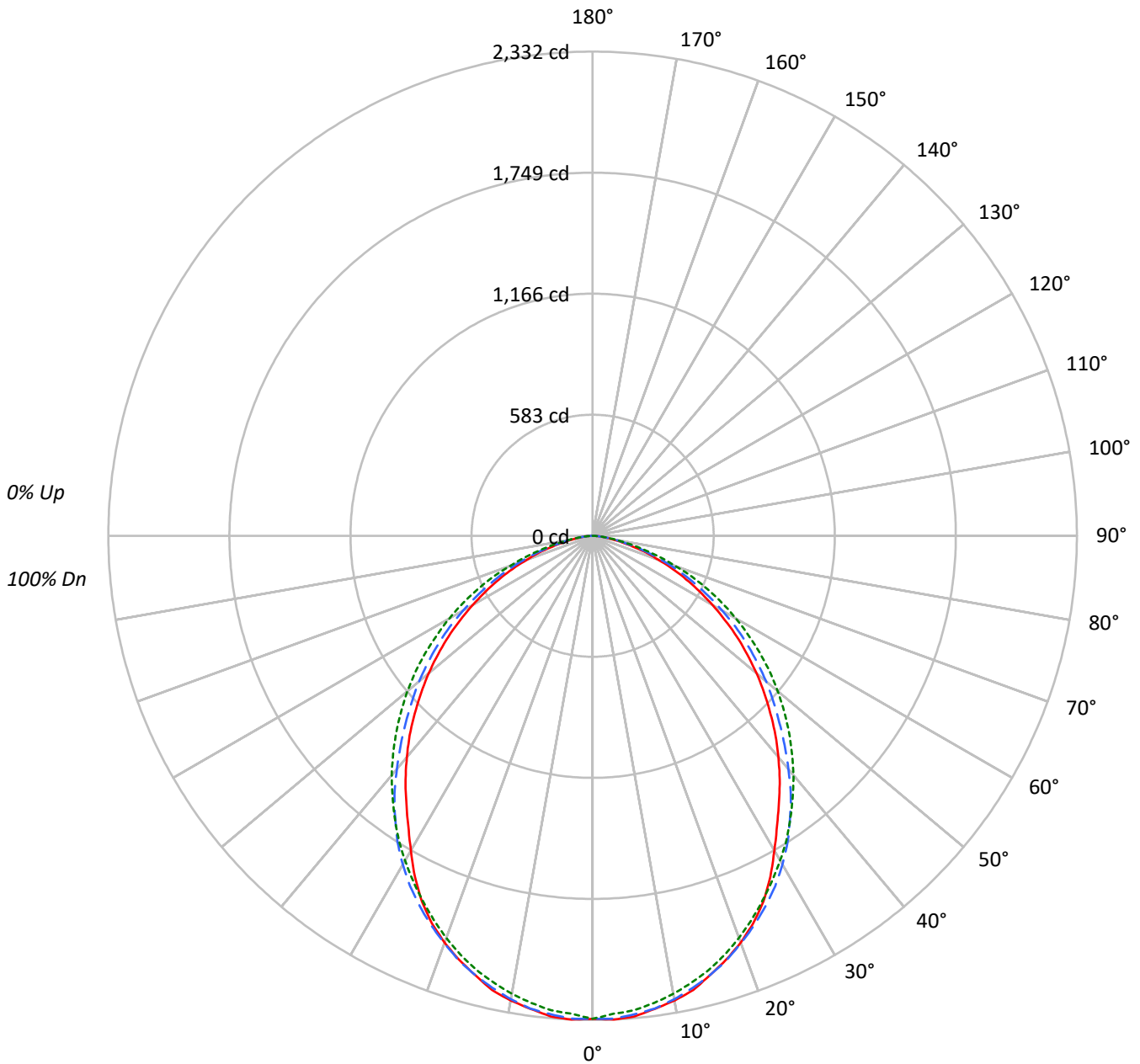
Lumens per Lamp: N/A
Luminaire Lumens: 5379.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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	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°	12520	12520	12520
5°	12553	12500	12394
10°	12420	12386	12244
15°	12199	12199	12060
20°	11942	11957	11804
25°	11548	11691	11506
30°	10874	11363	11225
35°	10276	10892	10910
40°	9776	10303	10574
45°	9217	9679	10176
50°	8627	9121	9743
55°	7958	8486	9216
60°	7167	7744	8571
65°	6328	6886	7796
70°	5273	5865	6623
75°	4144	4683	5184
80°	2963	3295	3657
85°	1933	1933	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	4.1
10°-20°	615.3	11.4
20°-30°	899.2	16.7
30°-40°	1020.7	19.0
40°-50°	985.3	18.3
50°-60°	812.8	15.1
60°-70°	541.3	10.1
70°-80°	242.2	4.5
80°-90°	43.3	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°	1733.5	32.2
0°-40°	2754.2	51.2
0°-60°	4552.2	84.6
0°-90°	5379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2324	2323	2314	2301	2294	220
15°	2190	2195	2190	2180	2164	617
25°	1945	1960	1969	1954	1938	891
35°	1564	1585	1658	1667	1660	980
45°	1211	1232	1272	1330	1337	934
55°	848	862	904	954	982	757
65°	497	510	541	579	612	493
75°	199	210	225	236	249	218
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2326.3	2326.3	2326.3	2326.3	2326.3
2.5°	2332.5	2333.4	2328.1	2313.8	2304.8
5°	2323.6	2322.7	2313.8	2301.3	2294.1
7.5°	2297.7	2299.5	2296.8	2278.9	2269.1
10°	2272.7	2273.6	2266.4	2252.1	2240.5
12.5°	2240.5	2239.6	2229.8	2222.6	2203.8
15°	2189.5	2194.9	2189.5	2179.7	2164.5
17.5°	2140.4	2140.4	2144.0	2127.0	2115.4
20°	2085.0	2087.7	2087.7	2074.3	2060.9
22.5°	2020.6	2028.7	2031.4	2017.1	2001.0
25°	1944.7	1959.9	1968.8	1954.5	1937.5
27.5°	1852.6	1875.9	1902.7	1891.9	1873.2
30°	1749.8	1783.8	1828.5	1819.6	1806.2
32.5°	1652.4	1686.4	1748.1	1744.5	1737.3
35°	1564.0	1585.4	1657.8	1666.7	1660.5
37.5°	1480.0	1499.6	1567.5	1588.1	1582.7
40°	1391.5	1412.9	1466.5	1503.2	1505.0
42.5°	1303.9	1324.5	1368.2	1421.0	1421.0
45°	1211.0	1231.5	1271.7	1329.8	1337.0
47.5°	1119.8	1141.2	1180.6	1238.7	1250.3
50°	1030.4	1050.1	1089.4	1145.7	1163.6
52.5°	937.5	958.9	997.4	1049.2	1075.1
55°	848.1	862.4	904.4	954.5	982.2
57.5°	755.2	768.6	815.9	858.8	887.4
60°	665.8	682.8	719.4	763.2	796.3
62.5°	580.0	597.9	629.2	667.6	705.1
65°	496.9	510.3	540.7	579.1	612.2
67.5°	416.5	428.1	458.5	485.3	520.1
70°	335.1	350.3	372.7	398.6	420.9
72.5°	269.9	276.2	294.9	313.7	336.9
75°	199.3	210.0	225.2	235.9	249.3
77.5°	143.0	149.2	158.2	167.1	179.6
80°	95.6	98.3	106.3	108.1	118.0
82.5°	58.1	59.9	61.7	62.6	66.1
85°	31.3	31.3	31.3	29.5	29.5
87.5°	17.9	17.9	15.2	12.5	8.9
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)