

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: P555395

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-85-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: P555395
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-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

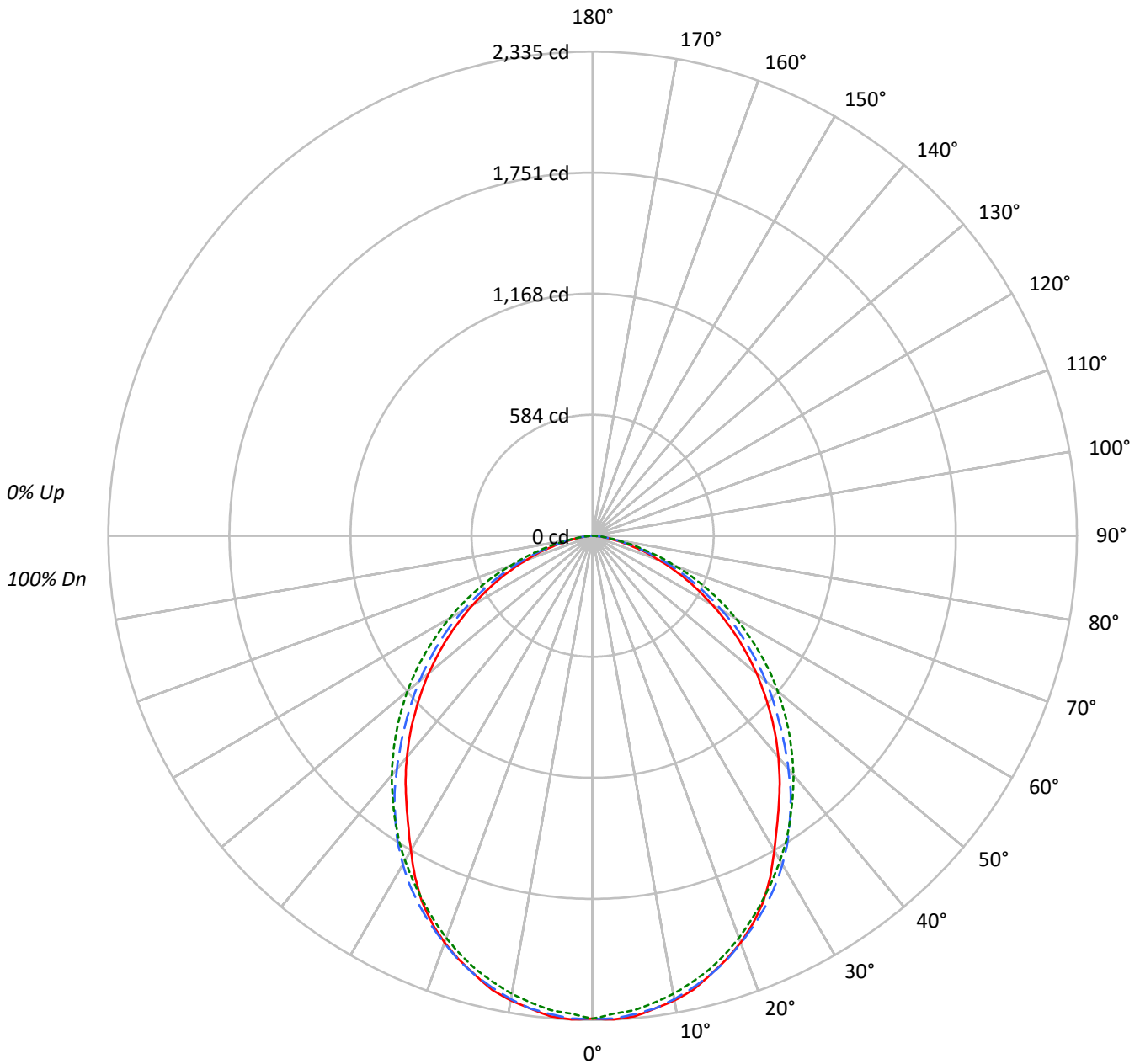
Lumens per Lamp: N/A
Luminaire Lumens: 5385.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	12534	12534	12534
5°	12567	12514	12408
10°	12434	12399	12258
15°	12213	12213	12074
20°	11955	11970	11817
25°	11561	11704	11519
30°	10887	11376	11237
35°	10287	10904	10922
40°	9787	10315	10586
45°	9227	9690	10188
50°	8637	9131	9754
55°	7967	8496	9226
60°	7174	7752	8581
65°	6334	6893	7805
70°	5279	5871	6631
75°	4148	4689	5190
80°	2966	3301	3660
85°	1933	1933	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	4.1
10°-20°	616.0	11.4
20°-30°	900.2	16.7
30°-40°	1021.8	19.0
40°-50°	986.4	18.3
50°-60°	813.7	15.1
60°-70°	541.9	10.1
70°-80°	242.5	4.5
80°-90°	43.4	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°	1735.4	32.2
0°-40°	2757.2	51.2
0°-60°	4557.3	84.6
0°-90°	5385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2326	2325	2316	2304	2297	220
15°	2192	2197	2192	2182	2167	618
25°	1947	1962	1971	1957	1940	892
35°	1566	1587	1660	1669	1662	981
45°	1212	1233	1273	1331	1338	935
55°	849	863	905	956	983	758
65°	497	511	541	580	613	493
75°	200	210	226	236	250	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°	2328.9	2328.9	2328.9	2328.9	2328.9
2.5°	2335.1	2336.0	2330.7	2316.3	2307.4
5°	2326.2	2325.3	2316.3	2303.8	2296.7
7.5°	2300.2	2302.0	2299.3	2281.5	2271.6
10°	2275.2	2276.1	2268.9	2254.6	2243.0
12.5°	2243.0	2242.1	2232.2	2225.1	2206.3
15°	2192.0	2197.4	2192.0	2182.1	2166.9
17.5°	2142.8	2142.8	2146.4	2129.4	2117.7
20°	2087.3	2090.0	2090.0	2076.6	2063.2
22.5°	2022.9	2030.9	2033.6	2019.3	2003.2
25°	1946.8	1962.1	1971.0	1956.7	1939.7
27.5°	1854.7	1878.0	1904.8	1894.1	1875.3
30°	1751.8	1785.8	1830.5	1821.6	1808.2
32.5°	1654.3	1688.3	1750.0	1746.4	1739.3
35°	1565.7	1587.2	1659.6	1668.6	1662.3
37.5°	1481.6	1501.3	1569.3	1589.9	1584.5
40°	1393.0	1414.5	1468.2	1504.9	1506.7
42.5°	1305.4	1325.9	1369.8	1422.6	1422.6
45°	1212.3	1232.9	1273.1	1331.3	1338.5
47.5°	1121.0	1142.5	1181.9	1240.0	1251.7
50°	1031.6	1051.3	1090.6	1147.0	1164.9
52.5°	938.5	960.0	998.5	1050.4	1076.3
55°	849.1	863.4	905.4	955.5	983.3
57.5°	756.0	769.4	816.9	859.8	888.4
60°	666.5	683.5	720.2	764.1	797.2
62.5°	580.7	598.5	629.9	668.3	705.9
65°	497.4	510.9	541.3	579.8	612.9
67.5°	416.9	428.6	459.0	485.8	520.7
70°	335.5	350.7	373.1	399.0	421.4
72.5°	270.2	276.5	295.2	314.0	337.3
75°	199.5	210.3	225.5	236.2	249.6
77.5°	143.2	149.4	158.4	167.3	179.8
80°	95.7	98.4	106.5	108.3	118.1
82.5°	58.2	59.9	61.7	62.6	66.2
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)