

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: P555379

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-85-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: P555379
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

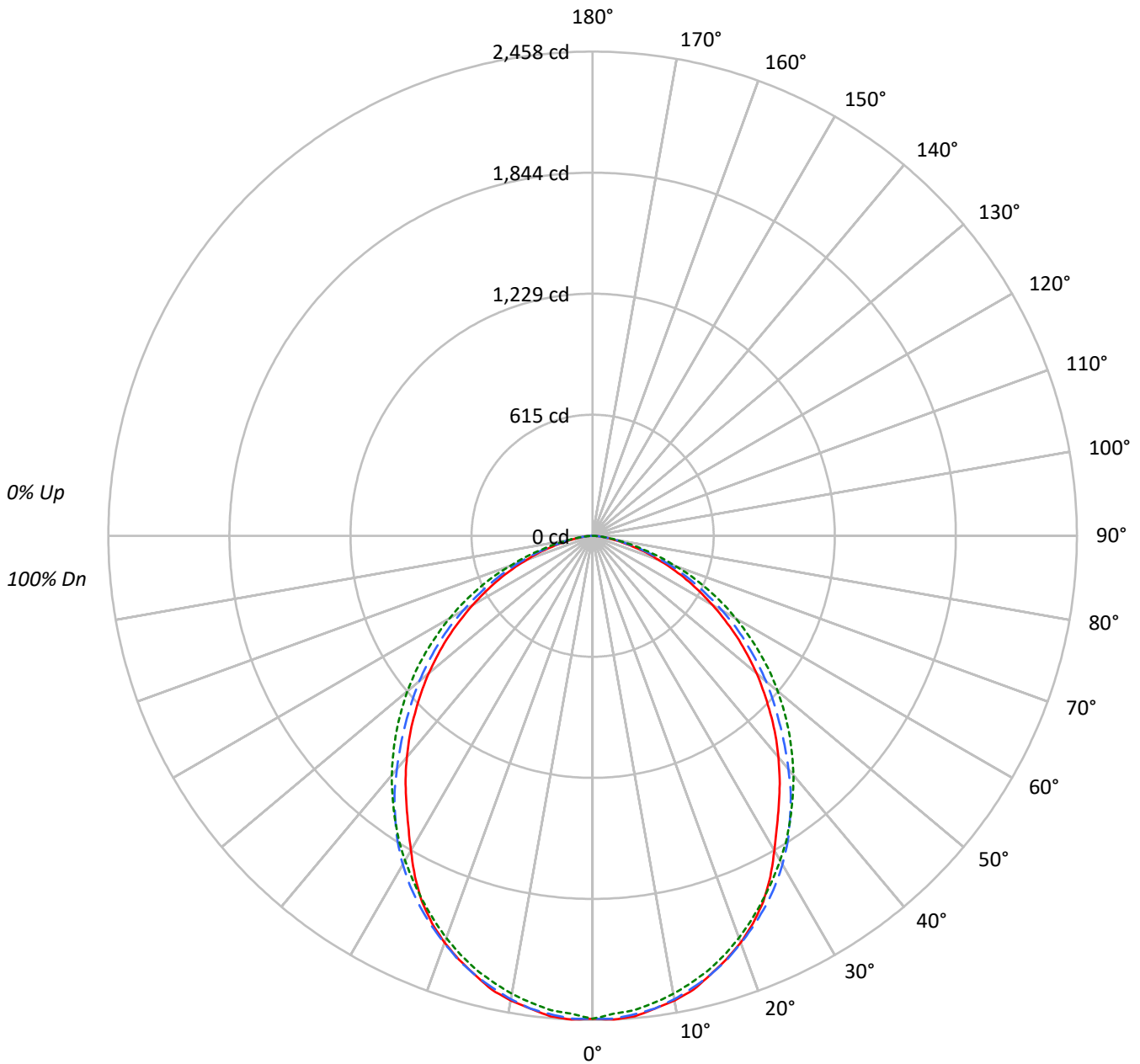
Lumens per Lamp: N/A
Luminaire Lumens: 5669.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13195	13195	13195
5°	13230	13174	13062
10°	13090	13054	12904
15°	12858	12858	12710
20°	12585	12601	12440
25°	12171	12321	12126
30°	11461	11976	11829
35°	10830	11479	11498
40°	10303	10859	11143
45°	9713	10201	10724
50°	9093	9613	10268
55°	8387	8944	9713
60°	7553	8161	9033
65°	6669	7256	8216
70°	5558	6181	6980
75°	4367	4937	5465
80°	3124	3474	3852
85°	2038	2038	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	4.1
10°-20°	648.5	11.4
20°-30°	947.6	16.7
30°-40°	1075.7	19.0
40°-50°	1038.4	18.3
50°-60°	856.6	15.1
60°-70°	570.4	10.1
70°-80°	255.3	4.5
80°-90°	45.7	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°	1827.0	32.2
0°-40°	2902.6	51.2
0°-60°	4797.6	84.6
0°-90°	5669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2449	2448	2438	2425	2418	232
15°	2308	2313	2308	2297	2281	651
25°	2050	2066	2075	2060	2042	939
35°	1648	1671	1747	1757	1750	1033
45°	1276	1298	1340	1402	1409	985
55°	894	909	953	1006	1035	798
65°	524	538	570	610	645	519
75°	210	221	237	249	263	230
85°	33	33	33	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2451.7	2451.7	2451.7	2451.7	2451.7
2.5°	2458.3	2459.2	2453.6	2438.5	2429.1
5°	2448.9	2447.9	2438.5	2425.3	2417.8
7.5°	2421.6	2423.4	2420.6	2401.8	2391.4
10°	2395.2	2396.1	2388.6	2373.5	2361.3
12.5°	2361.3	2360.3	2350.0	2342.4	2322.7
15°	2307.6	2313.2	2307.6	2297.2	2281.2
17.5°	2255.8	2255.8	2259.6	2241.7	2229.4
20°	2197.4	2200.2	2200.2	2186.1	2172.0
22.5°	2129.6	2138.1	2140.9	2125.8	2108.9
25°	2049.5	2065.5	2074.9	2059.9	2042.0
27.5°	1952.5	1977.0	2005.2	1993.9	1974.2
30°	1844.2	1880.0	1927.1	1917.7	1903.5
32.5°	1741.5	1777.3	1842.3	1838.5	1831.0
35°	1648.3	1670.9	1747.2	1756.6	1750.0
37.5°	1559.7	1580.5	1652.0	1673.7	1668.1
40°	1466.5	1489.1	1545.6	1584.2	1586.1
42.5°	1374.2	1395.9	1442.0	1497.6	1497.6
45°	1276.2	1297.9	1340.3	1401.5	1409.0
47.5°	1180.2	1202.8	1244.2	1305.4	1317.7
50°	1086.0	1106.7	1148.1	1207.5	1226.3
52.5°	988.0	1010.6	1051.1	1105.8	1133.1
55°	893.8	908.9	953.2	1005.9	1035.1
57.5°	795.9	810.0	859.9	905.1	935.3
60°	701.7	719.6	758.2	804.4	839.2
62.5°	611.3	630.1	663.1	703.6	743.1
65°	523.7	537.8	569.8	610.3	645.2
67.5°	438.9	451.2	483.2	511.4	548.2
70°	353.2	369.2	392.8	420.1	443.6
72.5°	284.4	291.0	310.8	330.6	355.1
75°	210.0	221.3	237.4	248.7	262.8
77.5°	150.7	157.3	166.7	176.1	189.3
80°	100.8	103.6	112.1	114.0	124.3
82.5°	61.2	63.1	65.0	65.9	69.7
85°	33.0	33.0	33.0	31.1	31.1
87.5°	18.8	18.8	16.0	13.2	9.4
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)