

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: P555389

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-96-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: P555389
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-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

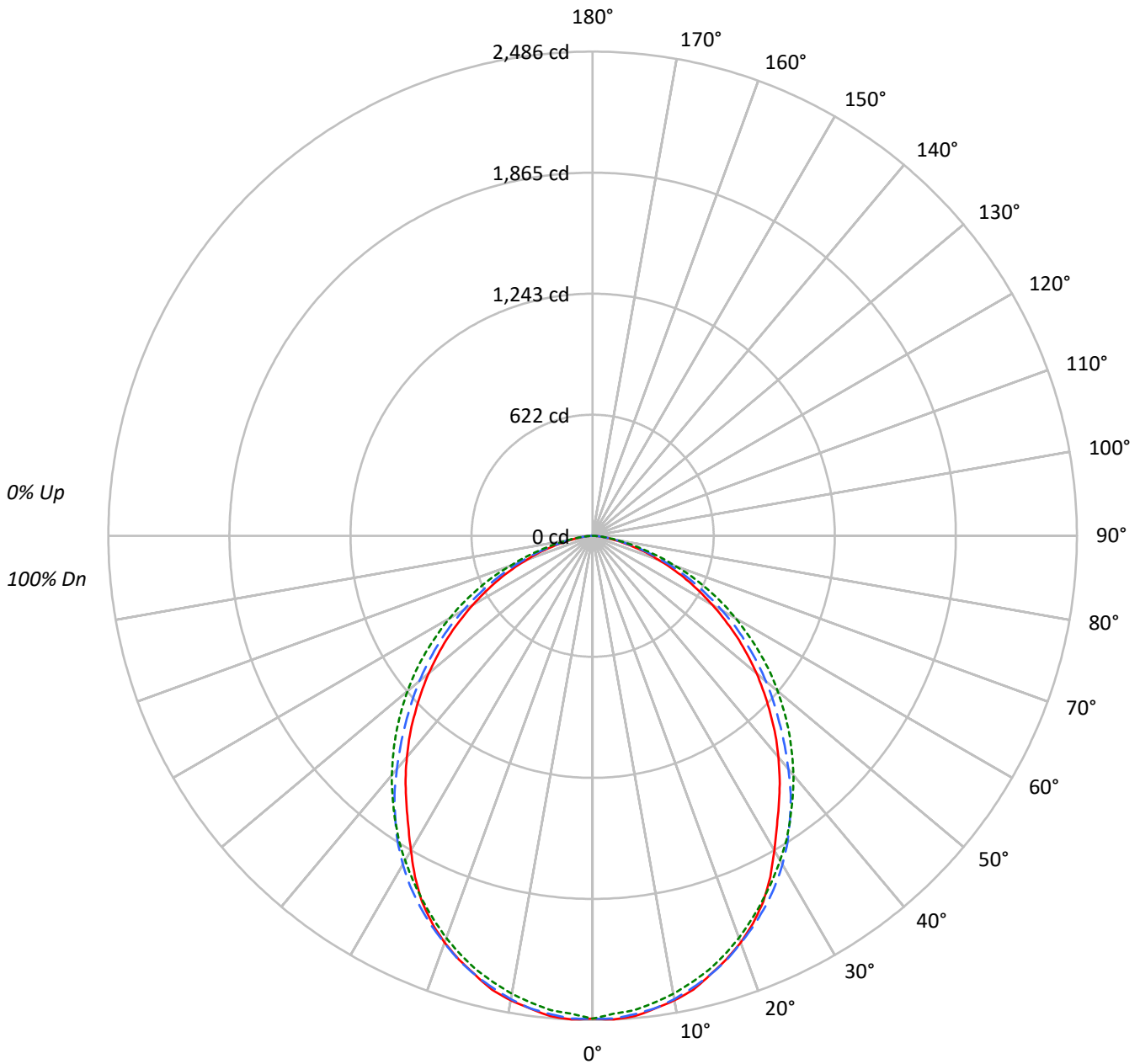
Lumens per Lamp: N/A
Luminaire Lumens: 5733.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	13344	13344	13344
5°	13379	13323	13210
10°	13237	13201	13050
15°	13002	13002	12854
20°	12727	12744	12580
25°	12308	12461	12263
30°	11590	12111	11963
35°	10952	11609	11628
40°	10420	10982	11269
45°	9823	10316	10845
50°	9195	9722	10384
55°	8481	9044	9822
60°	7638	8254	9135
65°	6744	7339	8309
70°	5621	6250	7059
75°	4417	4991	5525
80°	3158	3512	3896
85°	2056	2056	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	4.1
10°-20°	655.8	11.4
20°-30°	958.3	16.7
30°-40°	1087.8	19.0
40°-50°	1050.1	18.3
50°-60°	866.3	15.1
60°-70°	576.9	10.1
70°-80°	258.1	4.5
80°-90°	46.2	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°	1847.6	32.2
0°-40°	2935.4	51.2
0°-60°	4851.8	84.6
0°-90°	5733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2479	2479	2479	2479	2479	
5°	2476	2476	2466	2453	2445	234
15°	2334	2339	2334	2323	2307	658
25°	2073	2089	2098	2083	2065	949
35°	1667	1690	1767	1776	1770	1044
45°	1291	1313	1355	1417	1425	996
55°	904	919	964	1017	1047	807
65°	530	544	576	617	652	525
75°	212	224	240	252	266	232
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2479.4	2479.4	2479.4	2479.4	2479.4
2.5°	2486.0	2487.0	2481.3	2466.0	2456.5
5°	2476.5	2475.6	2466.0	2452.7	2445.1
7.5°	2448.9	2450.8	2447.9	2428.9	2418.4
10°	2422.2	2423.2	2415.6	2400.3	2387.9
12.5°	2387.9	2387.0	2376.5	2368.9	2348.9
15°	2333.6	2339.4	2333.6	2323.2	2307.0
17.5°	2281.3	2281.3	2285.1	2267.0	2254.6
20°	2222.2	2225.1	2225.1	2210.8	2196.5
22.5°	2153.6	2162.2	2165.0	2149.8	2132.7
25°	2072.7	2088.8	2098.4	2083.1	2065.0
27.5°	1974.5	1999.3	2027.9	2016.5	1996.5
30°	1865.0	1901.2	1948.8	1939.3	1925.0
32.5°	1761.2	1797.4	1863.1	1859.3	1851.7
35°	1666.9	1689.7	1766.9	1776.4	1769.8
37.5°	1577.4	1598.3	1670.7	1692.6	1686.9
40°	1483.1	1505.9	1563.1	1602.1	1604.0
42.5°	1389.7	1411.6	1458.3	1514.5	1514.5
45°	1290.6	1312.6	1355.4	1417.3	1424.9
47.5°	1193.5	1216.4	1258.3	1320.2	1332.6
50°	1098.2	1119.2	1161.1	1221.1	1240.2
52.5°	999.2	1022.0	1063.0	1118.2	1145.9
55°	903.9	919.2	963.9	1017.3	1046.8
57.5°	804.9	819.2	869.6	915.4	945.8
60°	709.6	727.7	766.8	813.4	848.7
62.5°	618.2	637.2	670.6	711.5	751.5
65°	529.6	543.9	576.3	617.2	652.5
67.5°	443.9	456.3	488.6	517.2	554.4
70°	357.2	373.4	397.2	424.8	448.6
72.5°	287.7	294.3	314.3	334.3	359.1
75°	212.4	223.8	240.0	251.5	265.7
77.5°	152.4	159.1	168.6	178.1	191.5
80°	101.9	104.8	113.3	115.3	125.7
82.5°	61.9	63.8	65.7	66.7	70.5
85°	33.3	33.3	33.3	31.4	31.4
87.5°	19.1	19.1	16.2	13.3	9.5
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)