

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: P555599

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-97-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: P555599
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-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

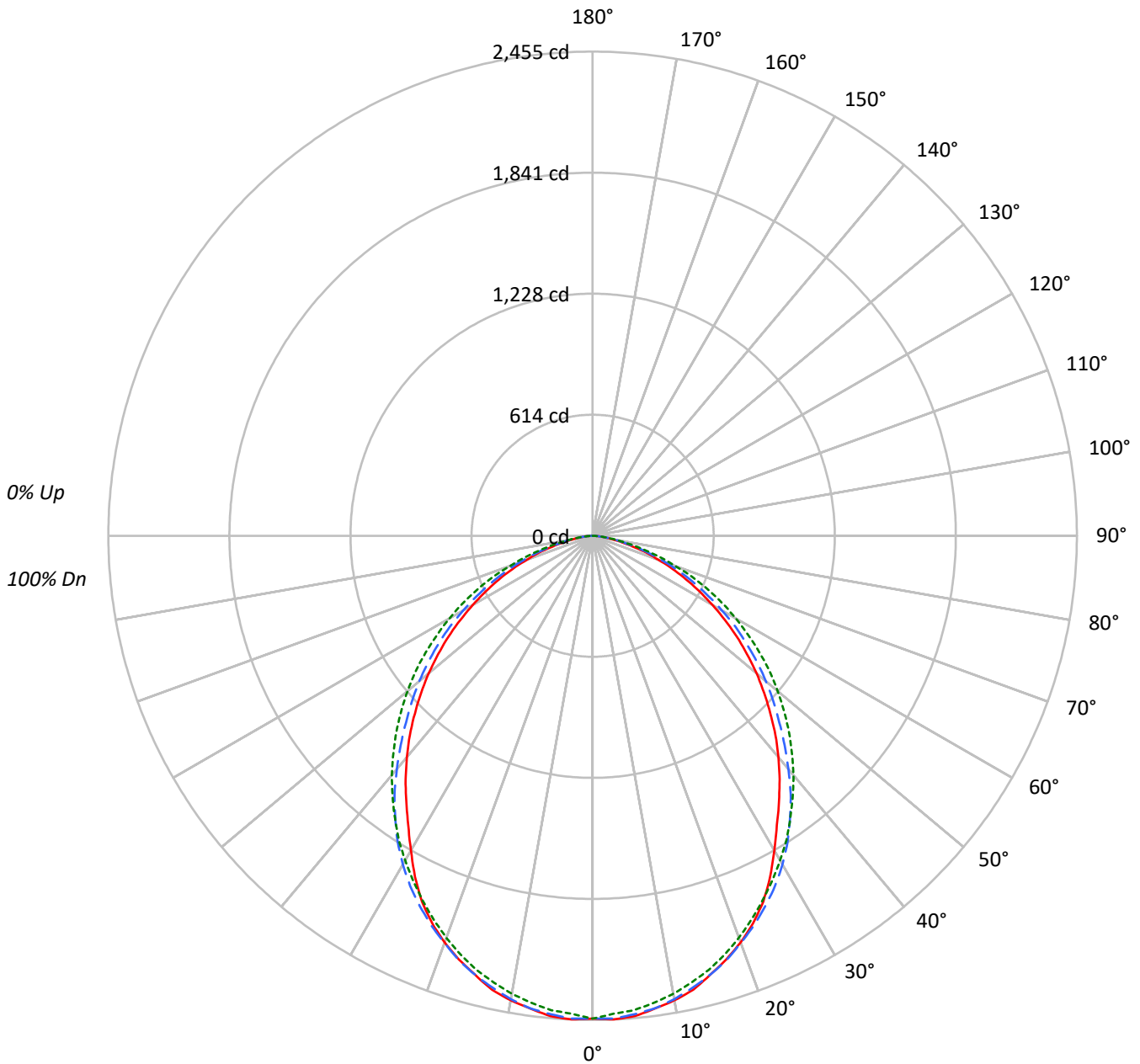
Lumens per Lamp: N/A
Luminaire Lumens: 5661.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13176	13176	13176
5°	13211	13156	13044
10°	13071	13035	12886
15°	12839	12839	12693
20°	12568	12584	12422
25°	12153	12304	12109
30°	11445	11959	11813
35°	10814	11463	11481
40°	10288	10843	11128
45°	9700	10187	10710
50°	9080	9599	10253
55°	8375	8931	9699
60°	7542	8149	9020
65°	6659	7246	8205
70°	5550	6172	6971
75°	4361	4928	5456
80°	3118	3468	3849
85°	2032	2032	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	4.1
10°-20°	647.6	11.4
20°-30°	946.3	16.7
30°-40°	1074.2	19.0
40°-50°	1036.9	18.3
50°-60°	855.4	15.1
60°-70°	569.6	10.1
70°-80°	254.9	4.5
80°-90°	45.6	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°	1824.4	32.2
0°-40°	2898.5	51.2
0°-60°	4790.9	84.6
0°-90°	5661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2445	2444	2435	2422	2414	231
15°	2304	2310	2304	2294	2278	650
25°	2047	2063	2072	2057	2039	937
35°	1646	1668	1745	1754	1748	1031
45°	1274	1296	1338	1400	1407	983
55°	893	908	952	1004	1034	797
65°	523	537	569	610	644	519
75°	210	221	237	248	262	229
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°	2448.2	2448.2	2448.2	2448.2	2448.2
2.5°	2454.8	2455.8	2450.1	2435.1	2425.7
5°	2445.4	2444.5	2435.1	2421.9	2414.4
7.5°	2418.1	2420.0	2417.2	2398.4	2388.0
10°	2391.8	2392.7	2385.2	2370.2	2357.9
12.5°	2357.9	2357.0	2346.7	2339.1	2319.4
15°	2304.3	2310.0	2304.3	2294.0	2278.0
17.5°	2252.6	2252.6	2256.4	2238.5	2226.3
20°	2194.3	2197.1	2197.1	2183.0	2168.9
22.5°	2126.6	2135.0	2137.9	2122.8	2105.9
25°	2046.6	2062.6	2072.0	2057.0	2039.1
27.5°	1949.7	1974.2	2002.4	1991.1	1971.4
30°	1841.6	1877.3	1924.4	1914.9	1900.8
32.5°	1739.1	1774.8	1839.7	1835.9	1828.4
35°	1646.0	1668.5	1744.7	1754.1	1747.5
37.5°	1557.5	1578.2	1649.7	1671.3	1665.7
40°	1464.4	1487.0	1543.4	1582.0	1583.9
42.5°	1372.3	1393.9	1440.0	1495.5	1495.5
45°	1274.4	1296.1	1338.4	1399.5	1407.1
47.5°	1178.5	1201.1	1242.5	1303.6	1315.8
50°	1084.4	1105.1	1146.5	1205.8	1224.6
52.5°	986.6	1009.2	1049.6	1104.2	1131.5
55°	892.6	907.6	951.8	1004.5	1033.7
57.5°	794.8	808.9	858.7	903.9	934.0
60°	700.7	718.6	757.1	803.2	838.0
62.5°	610.4	629.2	662.1	702.6	742.1
65°	522.9	537.1	569.0	609.5	644.3
67.5°	438.3	450.5	482.5	510.7	547.4
70°	352.7	368.7	392.2	419.5	443.0
72.5°	284.0	290.6	310.4	330.1	354.6
75°	209.7	221.0	237.0	248.3	262.4
77.5°	150.5	157.1	166.5	175.9	189.0
80°	100.6	103.5	111.9	113.8	124.2
82.5°	61.1	63.0	64.9	65.8	69.6
85°	32.9	32.9	32.9	31.0	31.0
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)