

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: P555497

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-88-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: P555497
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-35-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

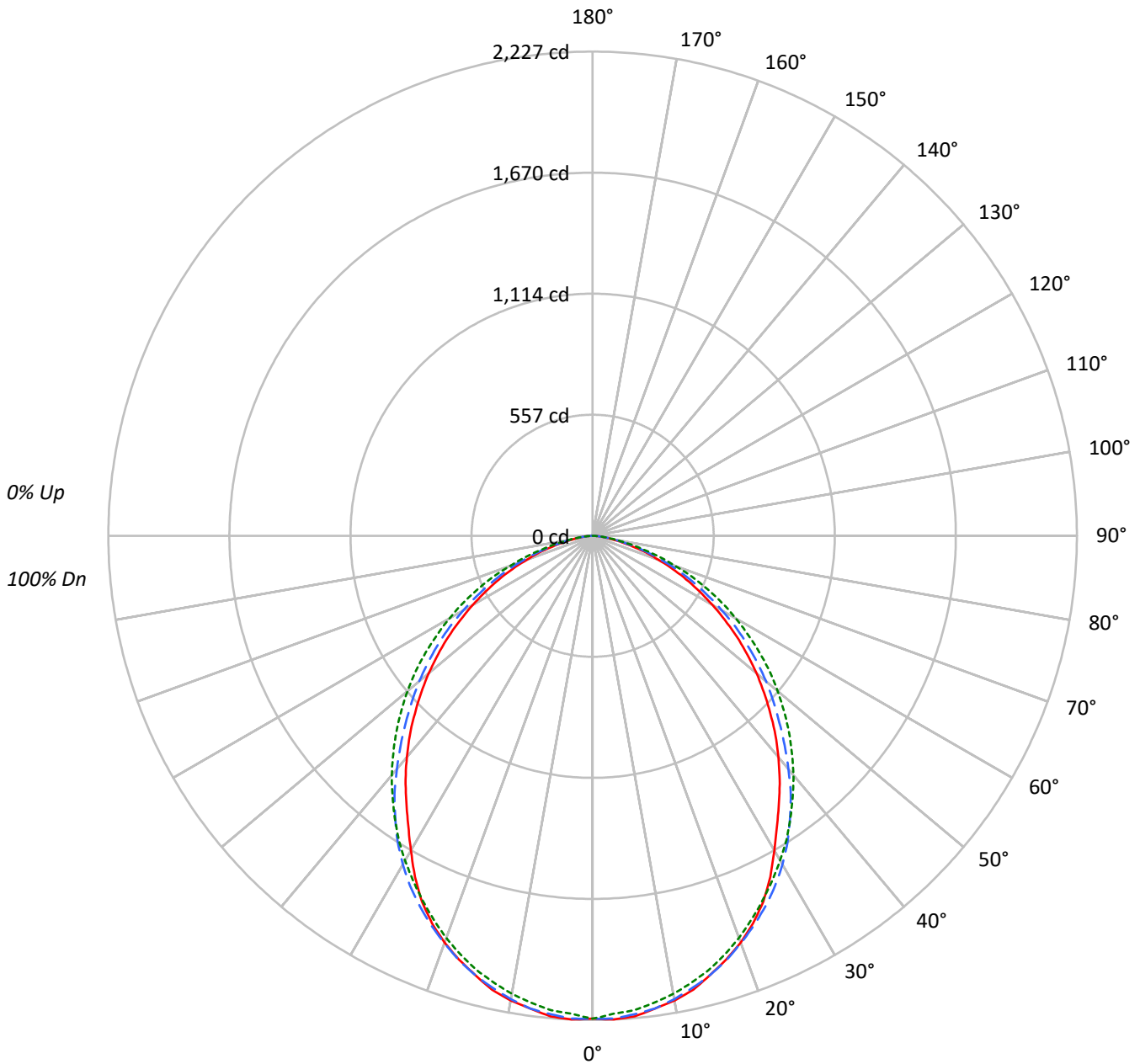
Lumens per Lamp: N/A
Luminaire Lumens: 5136.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-88-EDD

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°	11954	11954	11954
5°	11986	11935	11834
10°	11859	11826	11691
15°	11648	11648	11515
20°	11402	11417	11270
25°	11026	11163	10986
30°	10383	10850	10718
35°	9811	10400	10417
40°	9334	9838	10096
45°	8800	9242	9717
50°	8238	8709	9302
55°	7598	8103	8800
60°	6843	7394	8184
65°	6041	6575	7443
70°	5035	5599	6324
75°	3957	4471	4951
80°	2830	3146	3490
85°	1846	1846	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	4.1
10°-20°	587.5	11.4
20°-30°	858.5	16.7
30°-40°	974.5	19.0
40°-50°	940.8	18.3
50°-60°	776.1	15.1
60°-70°	516.8	10.1
70°-80°	231.3	4.5
80°-90°	41.4	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°	1655.2	32.2
0°-40°	2629.7	51.2
0°-60°	4346.6	84.6
0°-90°	5136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2219	2218	2209	2197	2190	210
15°	2091	2096	2091	2081	2067	589
25°	1857	1871	1880	1866	1850	850
35°	1493	1514	1583	1591	1586	936
45°	1156	1176	1214	1270	1277	892
55°	810	824	864	911	938	723
65°	474	487	516	553	584	470
75°	190	200	215	225	238	208
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2221.2	2221.2	2221.2	2221.2	2221.2
2.5°	2227.2	2228.0	2222.9	2209.2	2200.7
5°	2218.6	2217.8	2209.2	2197.3	2190.5
7.5°	2193.9	2195.6	2193.0	2176.0	2166.6
10°	2170.0	2170.8	2164.0	2150.4	2139.3
12.5°	2139.3	2138.4	2129.0	2122.2	2104.3
15°	2090.6	2095.7	2090.6	2081.2	2066.7
17.5°	2043.7	2043.7	2047.1	2030.9	2019.8
20°	1990.8	1993.4	1993.4	1980.6	1967.8
22.5°	1929.4	1937.0	1939.6	1925.9	1910.6
25°	1856.8	1871.3	1879.9	1866.2	1850.0
27.5°	1768.9	1791.1	1816.7	1806.5	1788.6
30°	1670.8	1703.2	1745.9	1737.4	1724.6
32.5°	1577.8	1610.2	1669.1	1665.7	1658.9
35°	1493.3	1513.8	1582.9	1591.4	1585.5
37.5°	1413.1	1431.9	1496.7	1516.3	1511.2
40°	1328.6	1349.1	1400.3	1435.3	1437.0
42.5°	1245.0	1264.6	1306.4	1356.8	1356.8
45°	1156.2	1175.9	1214.3	1269.7	1276.6
47.5°	1069.2	1089.7	1127.2	1182.7	1193.8
50°	983.9	1002.6	1040.2	1094.0	1111.0
52.5°	895.1	915.6	952.3	1001.8	1026.5
55°	809.8	823.5	863.6	911.3	937.8
57.5°	721.1	733.9	779.1	820.0	847.3
60°	635.7	651.9	686.9	728.7	760.3
62.5°	553.8	570.9	600.7	637.4	673.3
65°	474.4	487.2	516.3	553.0	584.5
67.5°	397.6	408.7	437.8	463.4	496.6
70°	320.0	334.5	355.8	380.6	401.9
72.5°	257.7	263.7	281.6	299.5	321.7
75°	190.3	200.5	215.0	225.3	238.1
77.5°	136.5	142.5	151.0	159.6	171.5
80°	91.3	93.9	101.5	103.3	112.6
82.5°	55.5	57.2	58.9	59.7	63.1
85°	29.9	29.9	29.9	28.2	28.2
87.5°	17.1	17.1	14.5	11.9	8.5
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)