

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: P557295

Luminaire Tested: **FUSL-12-4-LD4-2LO-35-UNV-93-97-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: P557295
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-12-4-LD4-2LO-35-UNV-93-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

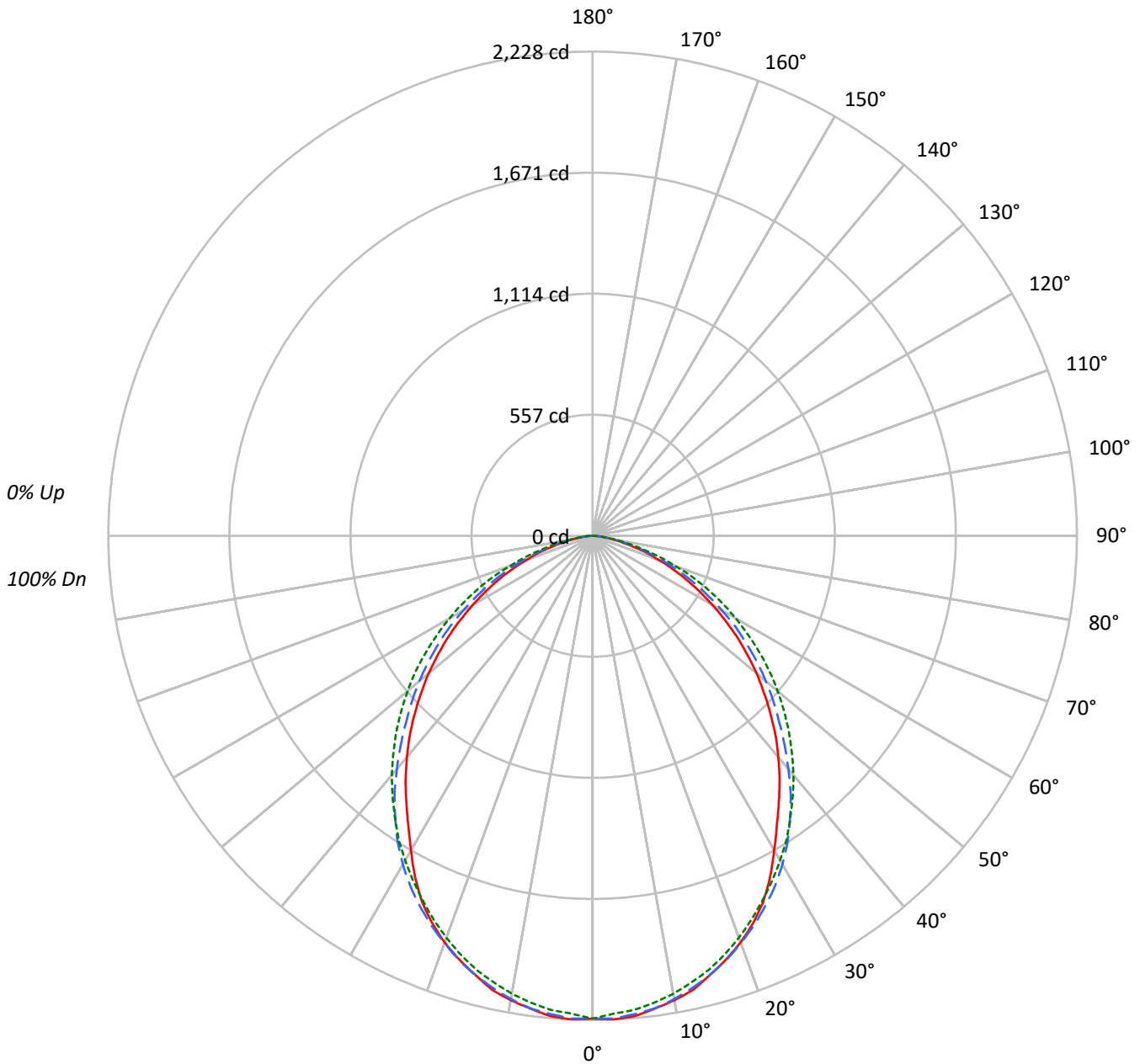
Lumens per Lamp: N/A
Luminaire Lumens: 5137.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	5978	5978	5978
5°	5994	5969	5918
10°	5931	5914	5847
15°	5825	5825	5759
20°	5702	5709	5636
25°	5514	5583	5494
30°	5193	5426	5360
35°	4907	5201	5209
40°	4668	4920	5049
45°	4401	4622	4859
50°	4120	4356	4652
55°	3800	4052	4401
60°	3422	3698	4093
65°	3021	3288	3722
70°	2519	2800	3163
75°	1979	2236	2476
80°	1415	1574	1746
85°	923	923	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	4.1
10°-20°	587.6	11.4
20°-30°	858.7	16.7
30°-40°	974.7	19.0
40°-50°	941.0	18.3
50°-60°	776.2	15.1
60°-70°	516.9	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°	1655.5	32.2
0°-40°	2630.2	51.2
0°-60°	4347.4	84.6
0°-90°	5137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2219	2218	2210	2198	2191	210
15°	2091	2096	2091	2082	2067	589
25°	1857	1872	1880	1867	1850	851
35°	1494	1514	1583	1592	1586	936
45°	1156	1176	1214	1270	1277	892
55°	810	824	864	912	938	723
65°	474	487	516	553	585	471
75°	190	201	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°	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2227.6	2228.4	2223.3	2209.7	2201.1
5°	2219.1	2218.2	2209.7	2197.7	2190.9
7.5°	2194.3	2196.0	2193.5	2176.4	2167.0
10°	2170.4	2171.3	2164.4	2150.8	2139.7
12.5°	2139.7	2138.8	2129.4	2122.6	2104.7
15°	2091.0	2096.2	2091.0	2081.6	2067.1
17.5°	2044.1	2044.1	2047.5	2031.3	2020.2
20°	1991.2	1993.7	1993.7	1980.9	1968.1
22.5°	1929.7	1937.4	1940.0	1926.3	1911.0
25°	1857.2	1871.7	1880.2	1866.6	1850.4
27.5°	1769.3	1791.5	1817.1	1806.8	1788.9
30°	1671.1	1703.6	1746.2	1737.7	1724.9
32.5°	1578.1	1610.5	1669.4	1666.0	1659.2
35°	1493.6	1514.1	1583.2	1591.7	1585.8
37.5°	1413.4	1432.1	1497.0	1516.6	1511.5
40°	1328.9	1349.4	1400.6	1435.6	1437.3
42.5°	1245.2	1264.9	1306.7	1357.0	1357.0
45°	1156.5	1176.1	1214.5	1270.0	1276.8
47.5°	1069.4	1089.9	1127.5	1182.9	1194.0
50°	984.1	1002.8	1040.4	1094.2	1111.2
52.5°	895.3	915.8	952.5	1002.0	1026.7
55°	810.0	823.6	863.7	911.5	938.0
57.5°	721.2	734.0	779.2	820.2	847.5
60°	635.8	652.1	687.1	728.9	760.5
62.5°	553.9	571.0	600.9	637.6	673.4
65°	474.5	487.3	516.4	553.1	584.6
67.5°	397.7	408.8	437.8	463.4	496.7
70°	320.1	334.6	355.9	380.7	402.0
72.5°	257.8	263.7	281.6	299.6	321.8
75°	190.3	200.6	215.1	225.3	238.1
77.5°	136.6	142.5	151.1	159.6	171.6
80°	91.3	93.9	101.6	103.3	112.7
82.5°	55.5	57.2	58.9	59.7	63.2
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)