

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: P557367

Luminaire Tested: **FUSL-12-4-LD4-2LO-50-UNV-80-87-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: P557367
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-50-UNV-80-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

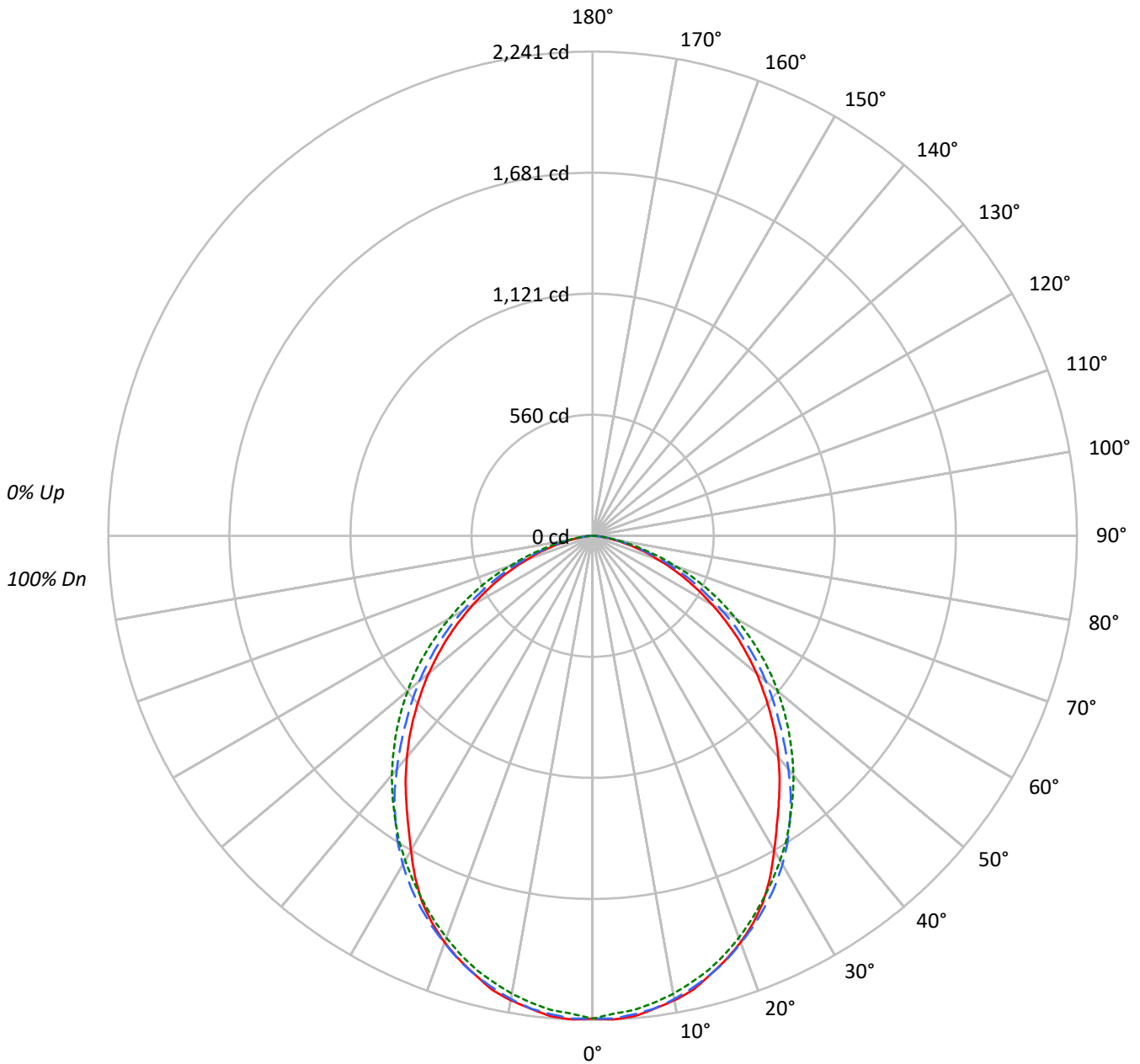
Lumens per Lamp: N/A
Luminaire Lumens: 5167.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P557367

CATALOG NUMBER: FUSL-12-4-LD4-2LO-50-UNV-80-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557367

CATALOG NUMBER: FUSL-12-4-LD4-2LO-50-UNV-80-87-EDD

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°	6013	6013	6013
5°	6029	6004	5953
10°	5965	5949	5881
15°	5859	5859	5792
20°	5735	5743	5669
25°	5546	5615	5526
30°	5223	5458	5391
35°	4935	5231	5240
40°	4695	4949	5078
45°	4427	4649	4888
50°	4144	4381	4679
55°	3822	4076	4427
60°	3442	3719	4117
65°	3039	3307	3745
70°	2533	2817	3181
75°	1990	2249	2490
80°	1424	1584	1756
85°	926	926	874



TEST NUMBER: P557367

CATALOG NUMBER: FUSL-12-4-LD4-2LO-50-UNV-80-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	4.1
10°-20°	591.1	11.4
20°-30°	863.7	16.7
30°-40°	980.4	19.0
40°-50°	946.4	18.3
50°-60°	780.8	15.1
60°-70°	519.9	10.1
70°-80°	232.7	4.5
80°-90°	41.6	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°	1665.2	32.2
0°-40°	2645.6	51.2
0°-60°	4372.8	84.6
0°-90°	5167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2232	2231	2223	2211	2204	211
15°	2103	2108	2103	2094	2079	593
25°	1868	1883	1891	1878	1861	855
35°	1502	1523	1592	1601	1595	941
45°	1163	1183	1222	1277	1284	897
55°	815	828	869	917	944	727
65°	477	490	519	556	588	473
75°	191	202	216	227	240	209
85°	30	30	30	28	28	41
90°	0	0	0	0	0	



TEST NUMBER: P557367

CATALOG NUMBER: FUSL-12-4-LD4-2LO-50-UNV-80-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2234.6	2234.6	2234.6	2234.6	2234.6
2.5°	2240.6	2241.5	2236.3	2222.6	2214.0
5°	2232.0	2231.2	2222.6	2210.6	2203.7
7.5°	2207.1	2208.8	2206.3	2189.1	2179.7
10°	2183.1	2183.9	2177.1	2163.3	2152.2
12.5°	2152.2	2151.3	2141.9	2135.0	2117.0
15°	2103.2	2108.4	2103.2	2093.8	2079.2
17.5°	2056.0	2056.0	2059.5	2043.2	2032.0
20°	2002.8	2005.4	2005.4	1992.5	1979.6
22.5°	1941.0	1948.7	1951.3	1937.6	1922.1
25°	1868.0	1882.6	1891.2	1877.5	1861.2
27.5°	1779.6	1801.9	1827.7	1817.4	1799.4
30°	1680.9	1713.5	1756.4	1747.8	1735.0
32.5°	1587.3	1619.9	1679.2	1675.7	1668.9
35°	1502.3	1522.9	1592.5	1601.0	1595.0
37.5°	1421.6	1440.5	1505.8	1525.5	1520.3
40°	1336.6	1357.2	1408.7	1443.9	1445.7
42.5°	1252.5	1272.3	1314.3	1365.0	1365.0
45°	1163.2	1183.0	1221.6	1277.4	1284.3
47.5°	1075.7	1096.3	1134.0	1189.8	1201.0
50°	989.8	1008.7	1046.5	1100.6	1117.7
52.5°	900.5	921.1	958.1	1007.8	1032.7
55°	814.7	828.4	868.8	916.8	943.5
57.5°	725.4	738.3	783.8	825.0	852.5
60°	639.6	655.9	691.1	733.1	764.9
62.5°	557.1	574.3	604.4	641.3	677.3
65°	477.3	490.2	519.4	556.3	588.1
67.5°	400.0	411.2	440.4	466.1	499.6
70°	321.9	336.5	358.0	382.9	404.3
72.5°	259.3	265.3	283.3	301.3	323.6
75°	191.4	201.7	216.3	226.6	239.5
77.5°	137.4	143.4	151.9	160.5	172.6
80°	91.9	94.4	102.2	103.9	113.3
82.5°	55.8	57.5	59.2	60.1	63.5
85°	30.0	30.0	30.0	28.3	28.3
87.5°	17.2	17.2	14.6	12.0	8.6
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)