

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: P557235

Luminaire Tested: **FUSL-12-4-LD4-2LO-35-UNV-80-85-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: P557235
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-80-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

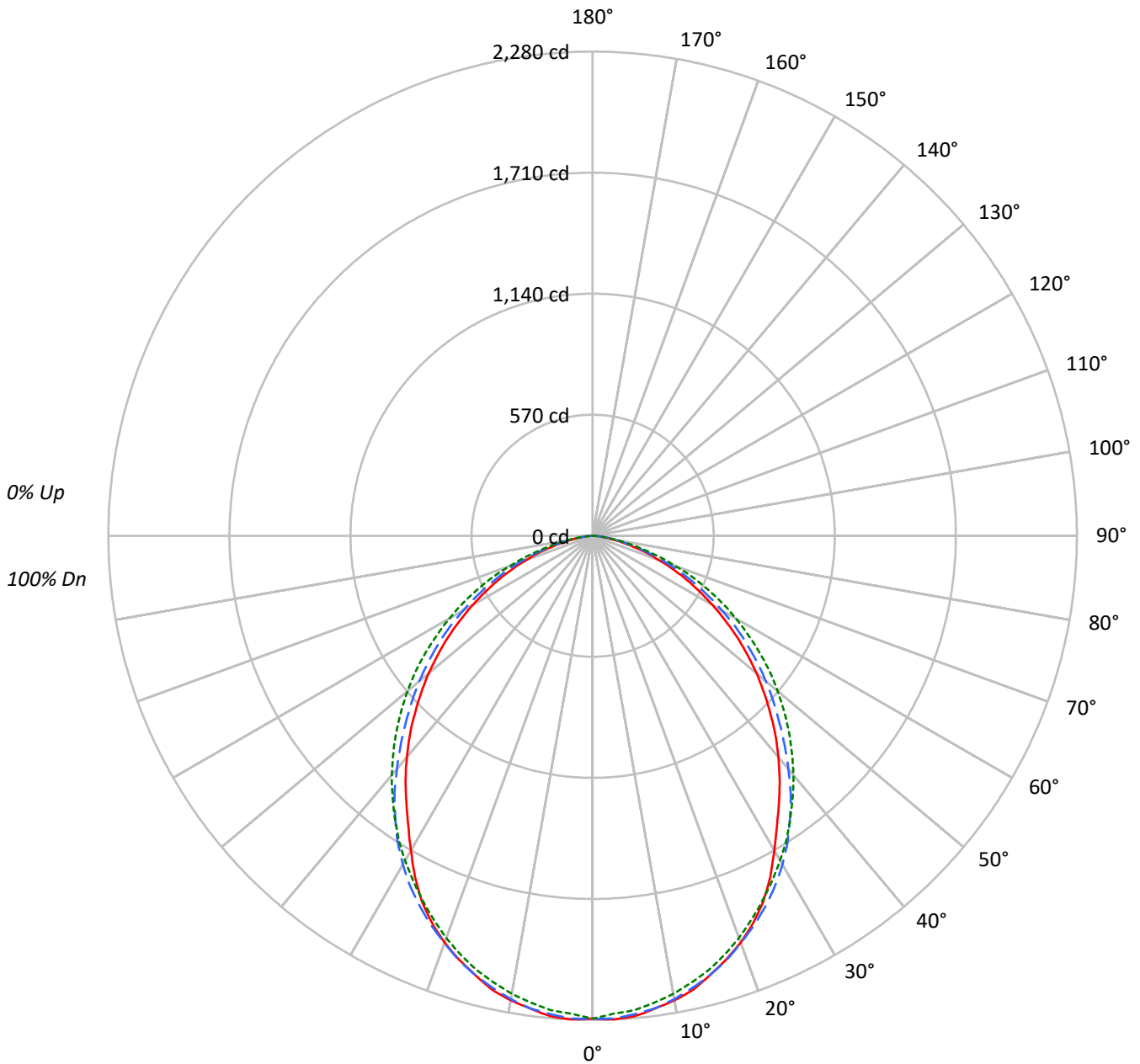
Lumens per Lamp: N/A
Luminaire Lumens: 5258.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P557235

CATALOG NUMBER: FUSL-12-4-LD4-2LO-35-UNV-80-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557235

CATALOG NUMBER: FUSL-12-4-LD4-2LO-35-UNV-80-85-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°	6119	6119	6119
5°	6135	6109	6058
10°	6070	6054	5984
15°	5963	5963	5894
20°	5836	5844	5769
25°	5644	5714	5623
30°	5315	5554	5486
35°	5022	5323	5332
40°	4778	5036	5168
45°	4505	4731	4974
50°	4217	4458	4762
55°	3889	4148	4504
60°	3503	3785	4189
65°	3093	3365	3810
70°	2578	2866	3238
75°	2025	2288	2534
80°	1449	1612	1787
85°	945	945	889



TEST NUMBER: P557235

CATALOG NUMBER: FUSL-12-4-LD4-2LO-35-UNV-80-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	4.1
10°-20°	601.5	11.4
20°-30°	878.9	16.7
30°-40°	997.7	19.0
40°-50°	963.1	18.3
50°-60°	794.5	15.1
60°-70°	529.1	10.1
70°-80°	236.7	4.5
80°-90°	42.4	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°	1694.5	32.2
0°-40°	2692.2	51.2
0°-60°	4449.8	84.6
0°-90°	5258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2274	2274	2274	2274	2274	
5°	2271	2270	2262	2250	2242	215
15°	2140	2146	2140	2131	2116	603
25°	1901	1916	1924	1910	1894	871
35°	1529	1550	1620	1629	1623	958
45°	1184	1204	1243	1300	1307	913
55°	829	843	884	933	960	740
65°	486	499	528	566	598	482
75°	195	205	220	231	244	213
85°	31	31	31	29	29	41
90°	0	0	0	0	0	



TEST NUMBER: P557235

CATALOG NUMBER: FUSL-12-4-LD4-2LO-35-UNV-80-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2280.1	2280.9	2275.7	2261.7	2253.0
5°	2271.3	2270.5	2261.7	2249.5	2242.5
7.5°	2246.0	2247.7	2245.1	2227.6	2218.0
10°	2221.5	2222.4	2215.4	2201.4	2190.1
12.5°	2190.1	2189.2	2179.6	2172.6	2154.3
15°	2140.3	2145.5	2140.3	2130.7	2115.8
17.5°	2092.2	2092.2	2095.7	2079.1	2067.8
20°	2038.1	2040.7	2040.7	2027.6	2014.5
22.5°	1975.2	1983.0	1985.7	1971.7	1956.0
25°	1900.9	1915.8	1924.5	1910.5	1893.9
27.5°	1810.9	1833.7	1859.9	1849.4	1831.0
30°	1710.5	1743.7	1787.4	1778.6	1765.5
32.5°	1615.3	1648.5	1708.7	1705.2	1698.3
35°	1528.8	1549.7	1620.5	1629.2	1623.1
37.5°	1446.7	1465.9	1532.3	1552.4	1547.1
40°	1360.2	1381.1	1433.6	1469.4	1471.1
42.5°	1274.6	1294.7	1337.5	1389.0	1389.0
45°	1183.7	1203.8	1243.1	1299.9	1306.9
47.5°	1094.6	1115.6	1154.0	1210.8	1222.1
50°	1007.2	1026.5	1064.9	1119.9	1137.4
52.5°	916.4	937.4	974.9	1025.6	1050.9
55°	829.0	843.0	884.1	933.0	960.1
57.5°	738.2	751.3	797.6	839.5	867.5
60°	650.8	667.4	703.2	746.0	778.4
62.5°	567.0	584.4	615.0	652.6	689.3
65°	485.7	498.8	528.5	566.1	598.4
67.5°	407.1	418.4	448.2	474.4	508.4
70°	327.6	342.4	364.3	389.6	411.5
72.5°	263.8	269.9	288.3	306.6	329.3
75°	194.8	205.3	220.1	230.6	243.7
77.5°	139.8	145.9	154.6	163.4	175.6
80°	93.5	96.1	104.0	105.7	115.3
82.5°	56.8	58.5	60.3	61.2	64.6
85°	30.6	30.6	30.6	28.8	28.8
87.5°	17.5	17.5	14.9	12.2	8.7
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)