

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: P555761

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-84-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: P555761
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-LD4-3LO-40-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

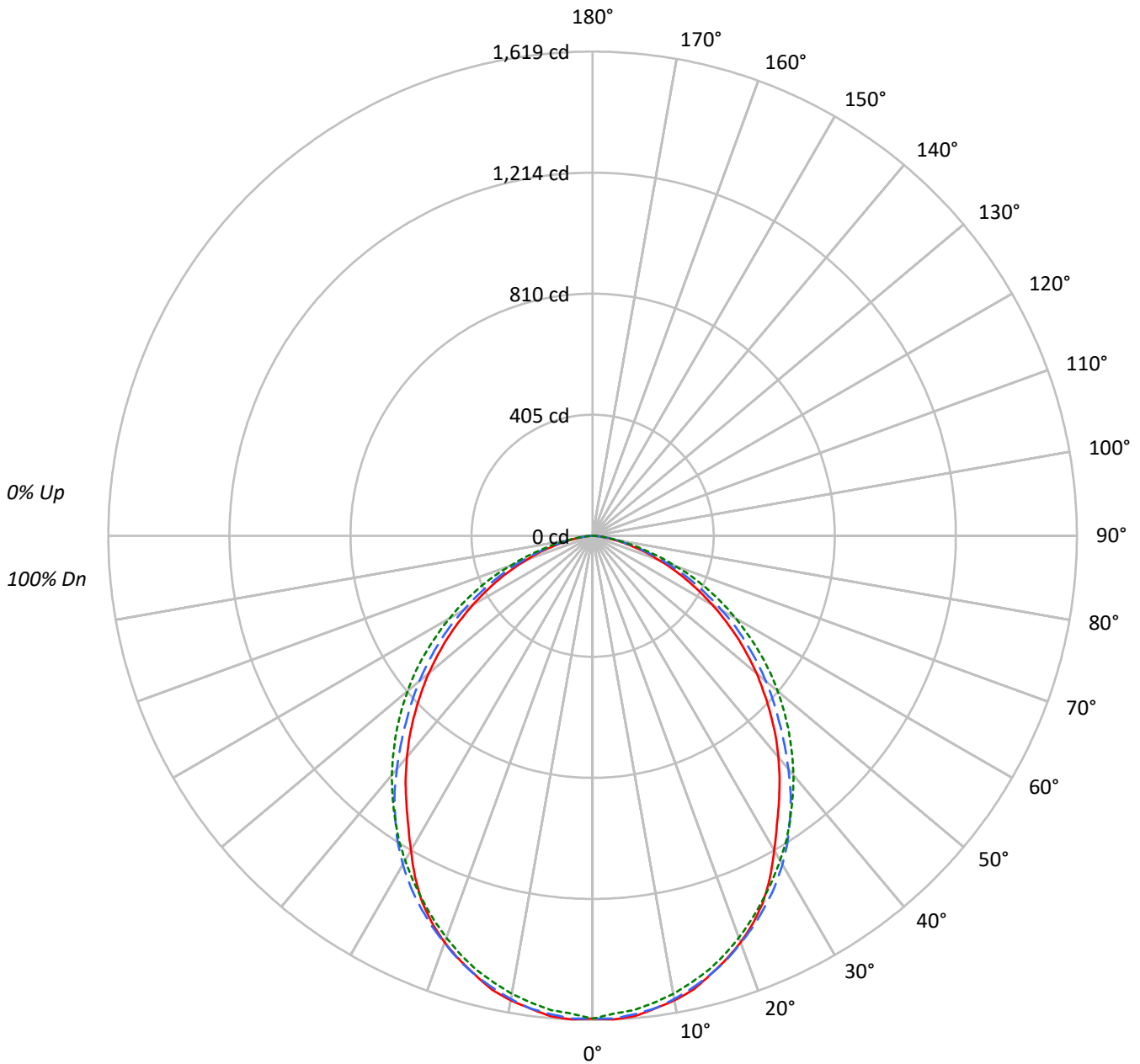
Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555761

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-80-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555761

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-80-84-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°	8689	8689	8689
5°	8712	8675	8601
10°	8619	8596	8498
15°	8466	8466	8370
20°	8287	8298	8191
25°	8014	8114	7985
30°	7547	7886	7790
35°	7131	7559	7571
40°	6785	7151	7338
45°	6396	6718	7062
50°	5987	6330	6761
55°	5523	5890	6396
60°	4974	5374	5948
65°	4391	4778	5410
70°	3660	4069	4596
75°	2876	3250	3597
80°	2058	2287	2538
85°	1340	1340	1266



TEST NUMBER: P555761

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-80-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	4.1
10°-20°	427.0	11.4
20°-30°	624.0	16.7
30°-40°	708.3	19.0
40°-50°	683.8	18.3
50°-60°	564.1	15.1
60°-70°	375.6	10.1
70°-80°	168.1	4.5
80°-90°	30.1	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°	1203.0	32.2
0°-40°	1911.4	51.2
0°-60°	3159.2	84.6
0°-90°	3733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1613	1612	1606	1597	1592	153
15°	1520	1523	1520	1513	1502	428
25°	1350	1360	1366	1356	1345	618
35°	1085	1100	1150	1157	1152	680
45°	840	855	883	923	928	648
55°	589	598	628	662	682	525
65°	345	354	375	402	425	342
75°	138	146	156	164	173	151
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



TEST NUMBER: P555761

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-80-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1618.8	1619.4	1615.7	1605.7	1599.5
5°	1612.6	1611.9	1605.7	1597.1	1592.1
7.5°	1594.6	1595.8	1594.0	1581.6	1574.7
10°	1577.2	1577.8	1572.9	1562.9	1554.9
12.5°	1554.9	1554.3	1547.4	1542.5	1529.5
15°	1519.5	1523.3	1519.5	1512.7	1502.2
17.5°	1485.4	1485.4	1487.9	1476.1	1468.1
20°	1447.0	1448.8	1448.8	1439.5	1430.2
22.5°	1402.3	1407.9	1409.8	1399.8	1388.7
25°	1349.6	1360.1	1366.3	1356.4	1344.6
27.5°	1285.7	1301.8	1320.4	1313.0	1300.0
30°	1214.4	1238.0	1269.0	1262.8	1253.5
32.5°	1146.8	1170.4	1213.1	1210.7	1205.7
35°	1085.4	1100.3	1150.5	1156.7	1152.4
37.5°	1027.1	1040.7	1087.9	1102.1	1098.4
40°	965.7	980.6	1017.8	1043.2	1044.4
42.5°	904.9	919.2	949.6	986.1	986.1
45°	840.4	854.7	882.6	922.9	927.8
47.5°	777.1	792.0	819.3	859.6	867.7
50°	715.1	728.8	756.0	795.1	807.5
52.5°	650.6	665.5	692.2	728.1	746.1
55°	588.6	598.5	627.7	662.4	681.6
57.5°	524.1	533.4	566.3	596.0	615.9
60°	462.1	473.8	499.3	529.7	552.6
62.5°	402.5	414.9	436.6	463.3	489.4
65°	344.8	354.1	375.2	401.9	424.8
67.5°	289.0	297.1	318.2	336.8	361.0
70°	232.6	243.1	258.6	276.6	292.1
72.5°	187.3	191.6	204.7	217.7	233.8
75°	138.3	145.8	156.3	163.7	173.0
77.5°	99.2	103.6	109.8	116.0	124.7
80°	66.4	68.2	73.8	75.0	81.9
82.5°	40.3	41.6	42.8	43.4	45.9
85°	21.7	21.7	21.7	20.5	20.5
87.5°	12.4	12.4	10.5	8.7	6.2
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)