

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: P555317

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-86-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: P555317
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-LD4-2STD-50-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

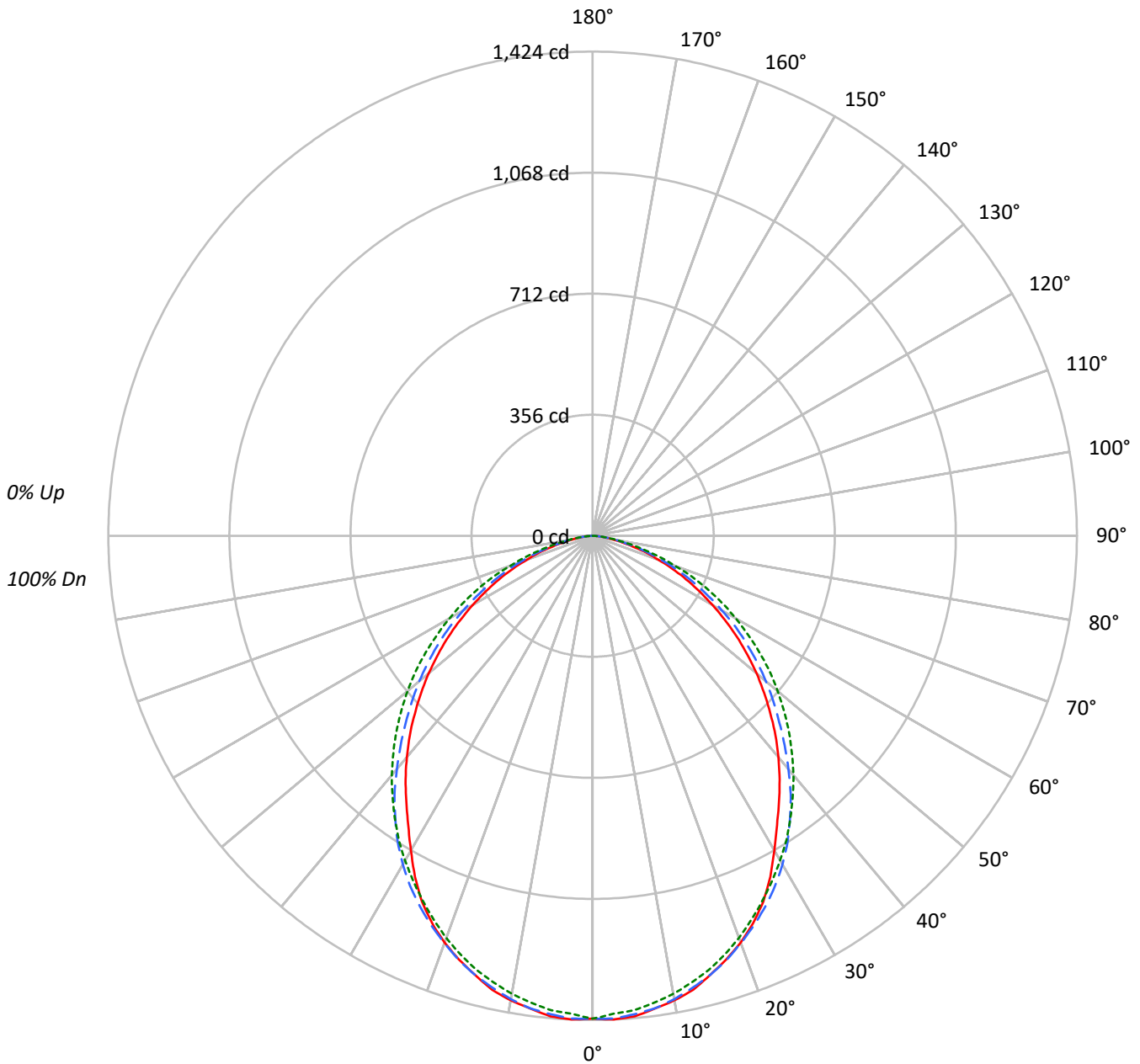
Lumens per Lamp: N/A
Luminaire Lumens: 3284.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

TEST NUMBER: P555317

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-80-86-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555317

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-80-86-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°	7643	7643	7643
5°	7664	7632	7567
10°	7583	7562	7476
15°	7448	7448	7363
20°	7290	7300	7206
25°	7051	7138	7024
30°	6639	6937	6853
35°	6273	6650	6661
40°	5968	6291	6455
45°	5627	5909	6212
50°	5267	5569	5948
55°	4859	5181	5626
60°	4376	4728	5232
65°	3864	4204	4759
70°	3220	3580	4044
75°	2531	2859	3165
80°	1810	2011	2232
85°	1179	1179	1112



TEST NUMBER: P555317

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-80-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	4.1
10°-20°	375.7	11.4
20°-30°	549.0	16.7
30°-40°	623.1	19.0
40°-50°	601.5	18.3
50°-60°	496.2	15.1
60°-70°	330.5	10.1
70°-80°	147.9	4.5
80°-90°	26.5	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°	1058.3	32.2
0°-40°	1681.5	51.2
0°-60°	2779.2	84.6
0°-90°	3284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1419	1418	1413	1405	1401	134
15°	1337	1340	1337	1331	1322	377
25°	1187	1196	1202	1193	1183	544
35°	955	968	1012	1018	1014	598
45°	739	752	776	812	816	570
55°	518	526	552	583	600	462
65°	303	312	330	354	374	301
75°	122	128	138	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



TEST NUMBER: P555317

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-80-86-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.2	1420.2	1420.2	1420.2	1420.2
2.5°	1424.1	1424.6	1421.3	1412.6	1407.2
5°	1418.6	1418.1	1412.6	1405.0	1400.6
7.5°	1402.8	1403.9	1402.2	1391.3	1385.3
10°	1387.5	1388.1	1383.7	1375.0	1367.9
12.5°	1367.9	1367.3	1361.3	1357.0	1345.5
15°	1336.8	1340.0	1336.8	1330.8	1321.5
17.5°	1306.8	1306.8	1308.9	1298.6	1291.5
20°	1272.9	1274.6	1274.6	1266.4	1258.2
22.5°	1233.6	1238.6	1240.2	1231.5	1221.6
25°	1187.3	1196.5	1202.0	1193.3	1182.9
27.5°	1131.1	1145.3	1161.6	1155.1	1143.6
30°	1068.3	1089.1	1116.3	1110.9	1102.7
32.5°	1008.8	1029.6	1067.2	1065.0	1060.7
35°	954.8	967.9	1012.1	1017.6	1013.8
37.5°	903.5	915.5	957.0	969.6	966.3
40°	849.5	862.6	895.4	917.7	918.8
42.5°	796.1	808.6	835.3	867.5	867.5
45°	739.3	751.9	776.4	811.9	816.2
47.5°	683.7	696.8	720.8	756.2	763.3
50°	629.1	641.1	665.1	699.5	710.4
52.5°	572.4	585.4	608.9	640.6	656.4
55°	517.8	526.5	552.2	582.7	599.6
57.5°	461.0	469.2	498.1	524.3	541.8
60°	406.5	416.9	439.2	466.0	486.1
62.5°	354.1	365.0	384.1	407.6	430.5
65°	303.4	311.5	330.1	353.6	373.7
67.5°	254.3	261.4	279.9	296.3	317.6
70°	204.6	213.9	227.5	243.3	257.0
72.5°	164.8	168.6	180.1	191.5	205.7
75°	121.7	128.2	137.5	144.0	152.2
77.5°	87.3	91.1	96.6	102.0	109.7
80°	58.4	60.0	64.9	66.0	72.0
82.5°	35.5	36.6	37.6	38.2	40.4
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.6	5.5
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)