

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: P555329

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-81-84-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: P555329
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

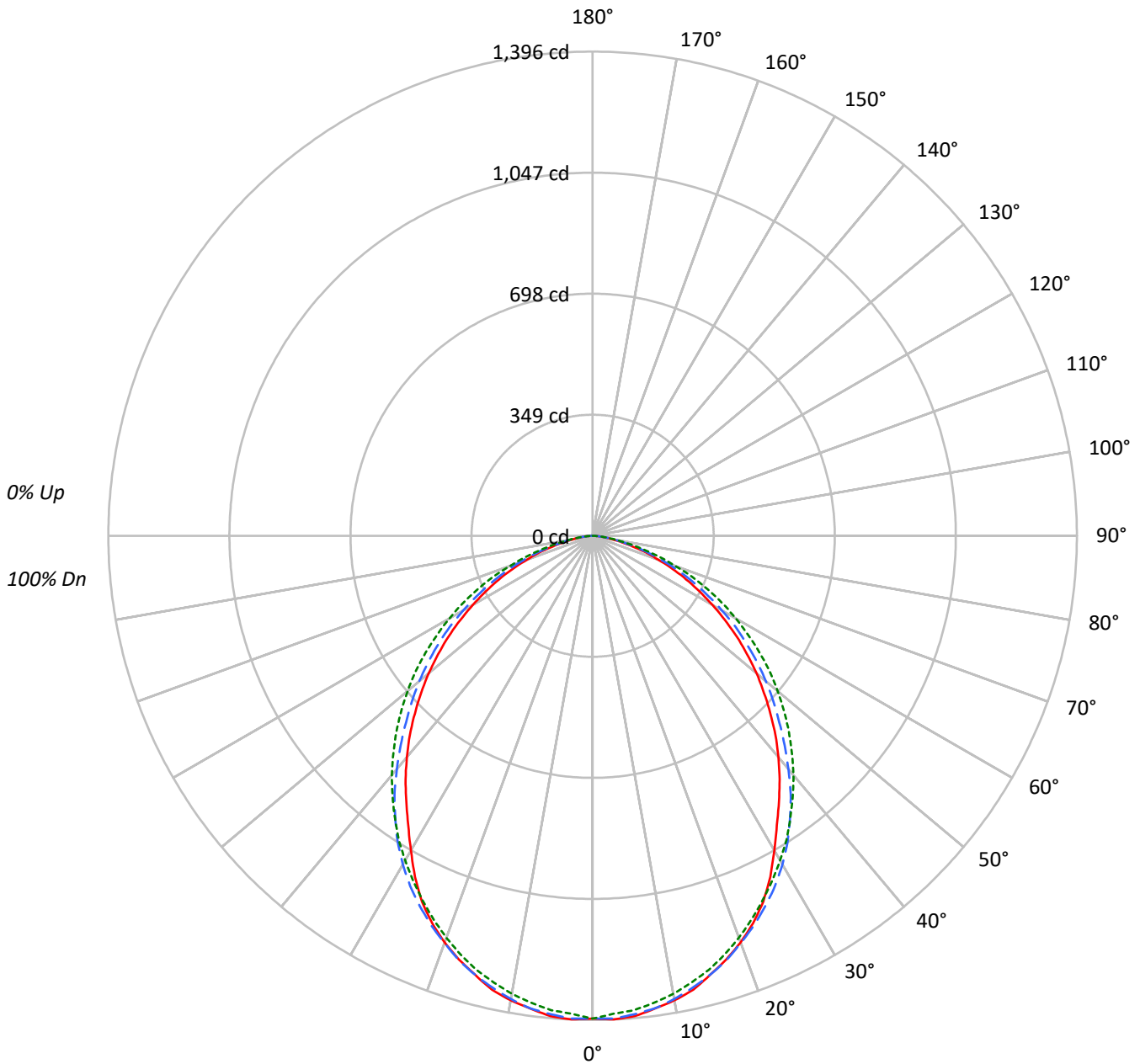
Lumens per Lamp: N/A
Luminaire Lumens: 3219.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555329

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555329

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-84-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°	7492	7492	7492
5°	7512	7480	7417
10°	7432	7412	7327
15°	7301	7301	7217
20°	7146	7155	7064
25°	6911	6997	6885
30°	6508	6800	6717
35°	6149	6518	6529
40°	5850	6166	6327
45°	5516	5792	6090
50°	5163	5458	5830
55°	4762	5078	5515
60°	4288	4634	5129
65°	3787	4121	4666
70°	3157	3509	3964
75°	2481	2803	3103
80°	1773	1971	2188
85°	1155	1155	1087



TEST NUMBER: P555329

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	4.1
10°-20°	368.2	11.4
20°-30°	538.1	16.7
30°-40°	610.8	19.0
40°-50°	589.6	18.3
50°-60°	486.4	15.1
60°-70°	323.9	10.1
70°-80°	144.9	4.5
80°-90°	25.9	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°	1037.4	32.2
0°-40°	1648.2	51.2
0°-60°	2724.2	84.6
0°-90°	3219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1390	1390	1385	1377	1373	132
15°	1310	1314	1310	1304	1295	369
25°	1164	1173	1178	1170	1160	533
35°	936	949	992	997	994	586
45°	725	737	761	796	800	559
55°	508	516	541	571	588	453
65°	297	305	324	347	366	295
75°	119	126	135	141	149	130
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



TEST NUMBER: P555329

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.1	1392.1	1392.1	1392.1	1392.1
2.5°	1395.9	1396.4	1393.2	1384.6	1379.3
5°	1390.5	1390.0	1384.6	1377.2	1372.9
7.5°	1375.0	1376.1	1374.5	1363.8	1357.9
10°	1360.0	1360.6	1356.3	1347.7	1340.8
12.5°	1340.8	1340.3	1334.4	1330.1	1318.9
15°	1310.3	1313.5	1310.3	1304.4	1295.3
17.5°	1280.9	1280.9	1283.0	1272.9	1265.9
20°	1247.7	1249.3	1249.3	1241.3	1233.3
22.5°	1209.2	1214.0	1215.6	1207.1	1197.5
25°	1163.8	1172.9	1178.2	1169.6	1159.5
27.5°	1108.7	1122.6	1138.6	1132.2	1121.0
30°	1047.2	1067.5	1094.2	1088.9	1080.9
32.5°	988.9	1009.2	1046.1	1044.0	1039.7
35°	935.9	948.8	992.1	997.4	993.7
37.5°	885.7	897.4	938.1	950.4	947.2
40°	832.7	845.5	877.6	899.6	900.6
42.5°	780.3	792.6	818.8	850.4	850.4
45°	724.7	737.0	761.0	795.8	800.1
47.5°	670.1	683.0	706.5	741.3	748.2
50°	616.6	628.4	651.9	685.6	696.3
52.5°	561.0	573.9	596.9	627.9	643.4
55°	507.5	516.1	541.2	571.2	587.8
57.5°	451.9	459.9	488.3	514.0	531.1
60°	398.4	408.6	430.5	456.7	476.5
62.5°	347.1	357.8	376.5	399.5	422.0
65°	297.4	305.4	323.6	346.6	366.4
67.5°	249.2	256.2	274.4	290.4	311.3
70°	200.6	209.6	223.0	238.5	251.9
72.5°	161.5	165.3	176.5	187.7	201.6
75°	119.3	125.7	134.8	141.2	149.2
77.5°	85.6	89.3	94.7	100.0	107.5
80°	57.2	58.8	63.6	64.7	70.6
82.5°	34.8	35.8	36.9	37.4	39.6
85°	18.7	18.7	18.7	17.6	17.6
87.5°	10.7	10.7	9.1	7.5	5.3
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)