

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: P555223

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-87-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: P555223
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-35-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

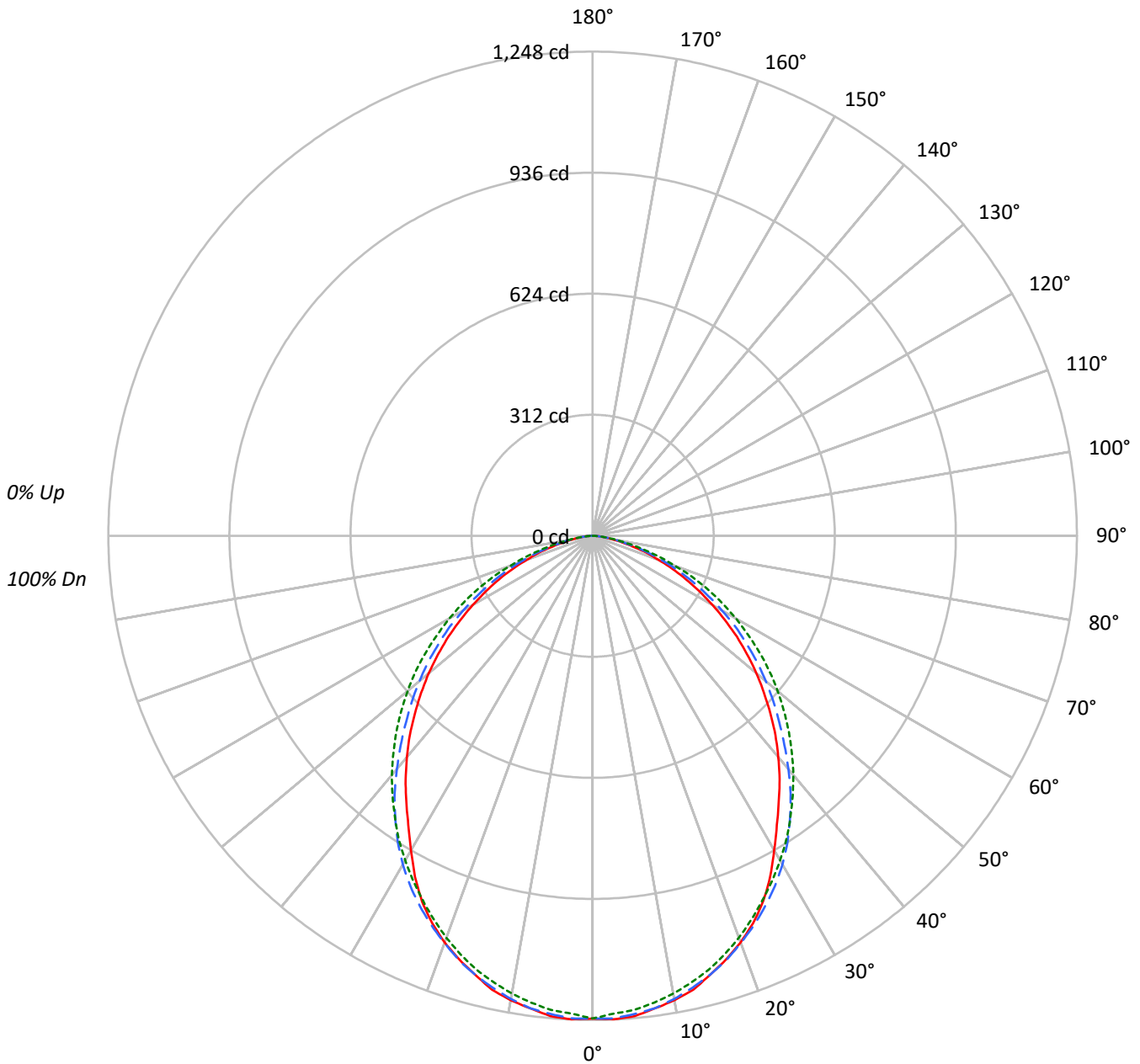
Lumens per Lamp: N/A
Luminaire Lumens: 2877.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555223

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-82-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555223

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-82-87-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°	6696	6696	6696
5°	6714	6686	6629
10°	6643	6625	6549
15°	6525	6525	6450
20°	6387	6395	6313
25°	6176	6253	6154
30°	5816	6078	6003
35°	5496	5826	5835
40°	5228	5511	5655
45°	4930	5177	5443
50°	4614	4879	5211
55°	4256	4539	4929
60°	3833	4142	4584
65°	3385	3683	4169
70°	2820	3136	3542
75°	2217	2506	2774
80°	1584	1764	1956
85°	1031	1031	976



TEST NUMBER: P555223

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-82-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.1
10°-20°	329.1	11.4
20°-30°	480.9	16.7
30°-40°	545.9	19.0
40°-50°	527.0	18.3
50°-60°	434.7	15.1
60°-70°	289.5	10.1
70°-80°	129.5	4.5
80°-90°	23.2	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°	927.2	32.2
0°-40°	1473.1	51.2
0°-60°	2434.8	84.6
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1243	1242	1238	1231	1227	118
15°	1171	1174	1171	1166	1158	330
25°	1040	1048	1053	1045	1036	476
35°	836	848	887	892	888	524
45°	648	659	680	711	715	500
55°	454	461	484	510	525	405
65°	266	273	289	310	327	264
75°	107	112	120	126	133	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



TEST NUMBER: P555223

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-82-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1247.6	1248.1	1245.2	1237.5	1232.8
5°	1242.8	1242.3	1237.5	1230.8	1227.0
7.5°	1228.9	1229.9	1228.5	1218.9	1213.6
10°	1215.5	1216.0	1212.2	1204.6	1198.3
12.5°	1198.3	1197.9	1192.6	1188.8	1178.7
15°	1171.1	1174.0	1171.1	1165.8	1157.7
17.5°	1144.8	1144.8	1146.7	1137.6	1131.4
20°	1115.2	1116.6	1116.6	1109.4	1102.3
22.5°	1080.8	1085.1	1086.5	1078.8	1070.2
25°	1040.1	1048.2	1053.0	1045.4	1036.3
27.5°	990.9	1003.3	1017.7	1011.9	1001.9
30°	935.9	954.1	978.0	973.2	966.0
32.5°	883.8	902.0	935.0	933.1	929.2
35°	836.5	848.0	886.7	891.5	888.1
37.5°	791.6	802.1	838.4	849.4	846.5
40°	744.2	755.7	784.4	804.0	804.9
42.5°	697.4	708.4	731.8	760.0	760.0
45°	647.7	658.7	680.2	711.3	715.1
47.5°	598.9	610.4	631.4	662.5	668.7
50°	551.1	561.6	582.7	612.8	622.4
52.5°	501.4	512.9	533.4	561.2	575.0
55°	453.6	461.3	483.7	510.5	525.3
57.5°	403.9	411.1	436.4	459.4	474.7
60°	356.1	365.2	384.8	408.2	425.9
62.5°	310.2	319.8	336.5	357.1	377.1
65°	265.8	272.9	289.2	309.7	327.4
67.5°	222.7	229.0	245.2	259.6	278.2
70°	179.2	187.4	199.3	213.2	225.1
72.5°	144.4	147.7	157.7	167.8	180.2
75°	106.6	112.3	120.5	126.2	133.4
77.5°	76.5	79.8	84.6	89.4	96.1
80°	51.1	52.6	56.9	57.8	63.1
82.5°	31.1	32.0	33.0	33.5	35.4
85°	16.7	16.7	16.7	15.8	15.8
87.5°	9.6	9.6	8.1	6.7	4.8
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)