

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: P555182

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-97-EDD-90**

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: P555182
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-30-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

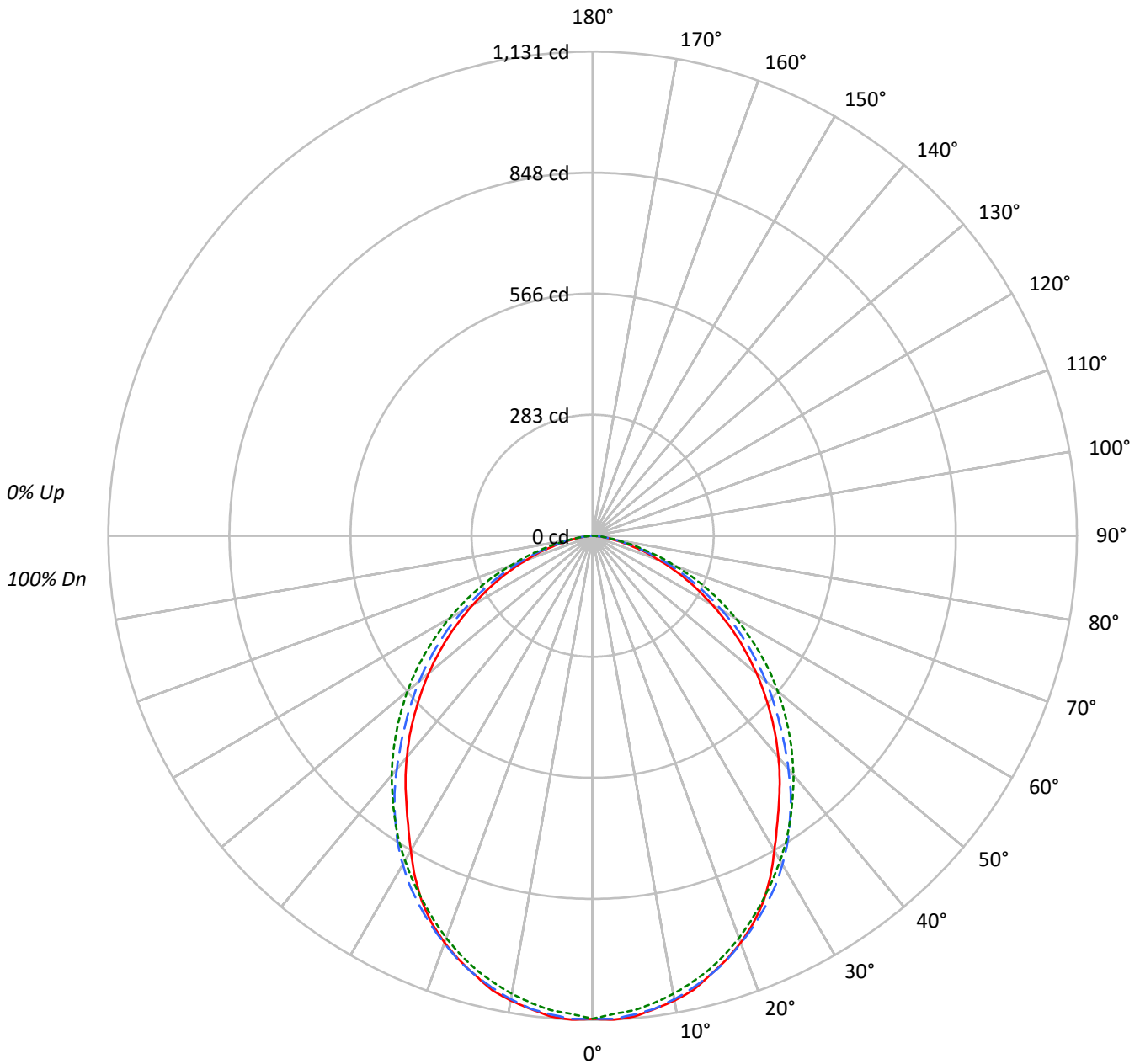
Lumens per Lamp: N/A
Luminaire Lumens: 2609.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555182

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-93-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555182

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-93-97-EDD-90

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°	6072	6072	6072
5°	6089	6063	6011
10°	6024	6008	5939
15°	5917	5917	5850
20°	5792	5800	5725
25°	5601	5671	5581
30°	5274	5512	5444
35°	4984	5283	5292
40°	4742	4997	5129
45°	4471	4695	4936
50°	4185	4424	4726
55°	3860	4116	4470
60°	3476	3756	4157
65°	3069	3339	3781
70°	2559	2845	3213
75°	2011	2271	2514
80°	1438	1599	1773
85°	939	939	883



TEST NUMBER: P555182

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-93-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	4.1
10°-20°	298.4	11.4
20°-30°	436.1	16.7
30°-40°	495.1	19.0
40°-50°	477.9	18.3
50°-60°	394.2	15.1
60°-70°	262.5	10.1
70°-80°	117.5	4.5
80°-90°	21.0	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°	840.8	32.2
0°-40°	1335.9	51.2
0°-60°	2208.0	84.6
0°-90°	2609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1127	1127	1122	1116	1113	107
15°	1062	1065	1062	1057	1050	299
25°	943	951	955	948	940	432
35°	759	769	804	808	805	475
45°	587	597	617	645	648	453
55°	411	418	439	463	476	367
65°	241	248	262	281	297	239
75°	97	102	109	114	121	106
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P555182

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-93-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.3	1128.3	1128.3	1128.3	1128.3
2.5°	1131.4	1131.8	1129.2	1122.3	1117.9
5°	1127.0	1126.6	1122.3	1116.2	1112.7
7.5°	1114.5	1115.3	1114.0	1105.4	1100.6
10°	1102.3	1102.8	1099.3	1092.3	1086.7
12.5°	1086.7	1086.3	1081.5	1078.0	1068.9
15°	1062.0	1064.6	1062.0	1057.2	1049.9
17.5°	1038.2	1038.2	1039.9	1031.7	1026.0
20°	1011.3	1012.6	1012.6	1006.1	999.6
22.5°	980.1	984.0	985.3	978.3	970.5
25°	943.2	950.6	954.9	948.0	939.8
27.5°	898.6	909.9	922.9	917.7	908.6
30°	848.7	865.2	886.9	882.5	876.0
32.5°	801.5	818.0	847.9	846.1	842.7
35°	758.6	769.0	804.1	808.4	805.4
37.5°	717.8	727.4	760.3	770.3	767.7
40°	674.9	685.3	711.3	729.1	730.0
42.5°	632.4	642.4	663.6	689.2	689.2
45°	587.4	597.3	616.8	645.0	648.5
47.5°	543.1	553.5	572.6	600.8	606.4
50°	499.8	509.3	528.4	555.7	564.4
52.5°	454.7	465.1	483.8	508.9	521.5
55°	411.4	418.3	438.7	462.9	476.4
57.5°	366.3	372.8	395.8	416.6	430.4
60°	322.9	331.2	348.9	370.2	386.2
62.5°	281.3	290.0	305.2	323.8	342.0
65°	241.0	247.5	262.2	280.9	296.9
67.5°	202.0	207.6	222.4	235.4	252.3
70°	162.6	169.9	180.8	193.3	204.2
72.5°	130.9	133.9	143.0	152.1	163.4
75°	96.7	101.9	109.2	114.4	120.9
77.5°	69.4	72.4	76.7	81.1	87.1
80°	46.4	47.7	51.6	52.4	57.2
82.5°	28.2	29.0	29.9	30.3	32.1
85°	15.2	15.2	15.2	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	4.3
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)