

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: P555214

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-97-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: P555214
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-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

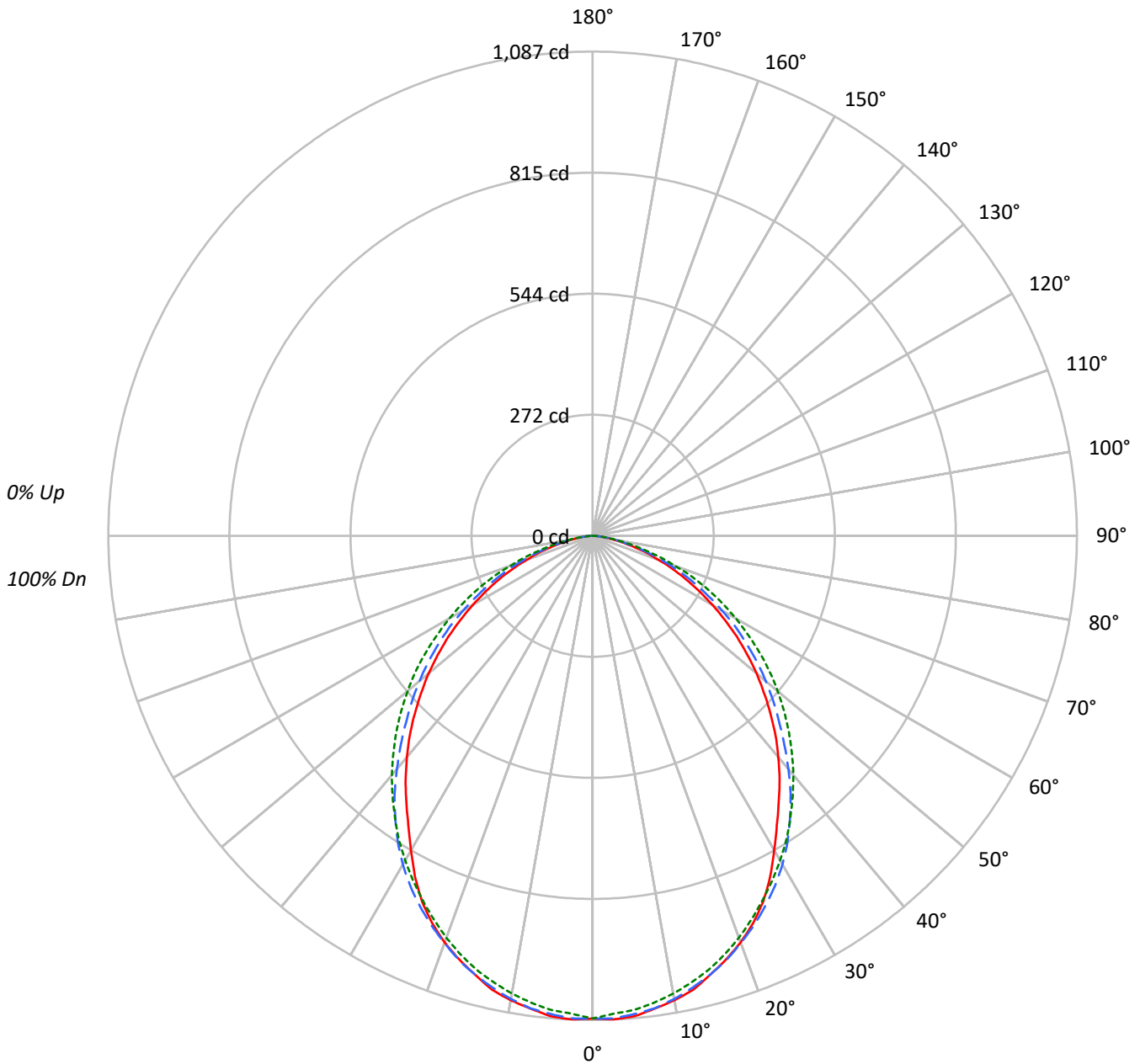
Lumens per Lamp: N/A
Luminaire Lumens: 2506.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555214

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555214

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-97-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°	5833	5833	5833
5°	5848	5824	5774
10°	5786	5770	5704
15°	5684	5684	5619
20°	5564	5570	5499
25°	5380	5447	5361
30°	5066	5294	5230
35°	4787	5074	5083
40°	4555	4800	4926
45°	4294	4510	4741
50°	4020	4249	4539
55°	3707	3954	4294
60°	3339	3608	3993
65°	2948	3208	3632
70°	2456	2732	3086
75°	1930	2181	2416
80°	1382	1534	1705
85°	902	902	846



TEST NUMBER: P555214

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	4.1
10°-20°	286.7	11.4
20°-30°	418.9	16.7
30°-40°	475.5	19.0
40°-50°	459.0	18.3
50°-60°	378.7	15.1
60°-70°	252.2	10.1
70°-80°	112.8	4.5
80°-90°	20.2	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°	807.6	32.2
0°-40°	1283.1	51.2
0°-60°	2120.8	84.6
0°-90°	2506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1082	1082	1078	1072	1069	102
15°	1020	1023	1020	1016	1008	288
25°	906	913	917	911	903	415
35°	729	739	772	776	774	457
45°	564	574	592	620	623	435
55°	395	402	421	445	458	353
65°	232	238	252	270	285	230
75°	93	98	105	110	116	101
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P555214

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.8	1083.8	1083.8	1083.8	1083.8
2.5°	1086.7	1087.1	1084.6	1078.0	1073.8
5°	1082.5	1082.1	1078.0	1072.1	1068.8
7.5°	1070.5	1071.3	1070.0	1061.7	1057.1
10°	1058.8	1059.2	1055.9	1049.2	1043.8
12.5°	1043.8	1043.4	1038.8	1035.5	1026.7
15°	1020.1	1022.6	1020.1	1015.5	1008.4
17.5°	997.2	997.2	998.8	990.9	985.5
20°	971.4	972.6	972.6	966.4	960.1
22.5°	941.4	945.1	946.4	939.7	932.2
25°	906.0	913.1	917.2	910.6	902.7
27.5°	863.1	873.9	886.4	881.4	872.7
30°	815.2	831.1	851.9	847.7	841.5
32.5°	769.8	785.7	814.4	812.7	809.4
35°	728.6	738.6	772.3	776.5	773.6
37.5°	689.5	698.6	730.3	739.9	737.4
40°	648.3	658.3	683.2	700.3	701.1
42.5°	607.5	617.0	637.4	662.0	662.0
45°	564.2	573.7	592.5	619.5	622.9
47.5°	521.7	531.7	550.0	577.1	582.5
50°	480.1	489.2	507.5	533.8	542.1
52.5°	436.8	446.8	464.7	488.8	500.9
55°	395.1	401.8	421.4	444.7	457.6
57.5°	351.8	358.1	380.1	400.1	413.4
60°	310.2	318.1	335.2	355.6	371.0
62.5°	270.2	278.5	293.1	311.0	328.5
65°	231.5	237.7	251.9	269.8	285.2
67.5°	194.0	199.4	213.6	226.1	242.3
70°	156.1	163.2	173.6	185.7	196.1
72.5°	125.7	128.7	137.4	146.1	157.0
75°	92.8	97.8	104.9	109.9	116.2
77.5°	66.6	69.5	73.7	77.9	83.7
80°	44.6	45.8	49.5	50.4	55.0
82.5°	27.1	27.9	28.7	29.1	30.8
85°	14.6	14.6	14.6	13.7	13.7
87.5°	8.3	8.3	7.1	5.8	4.2
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)