

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: P554989

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-96-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: P554989
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-LD4-2LO-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

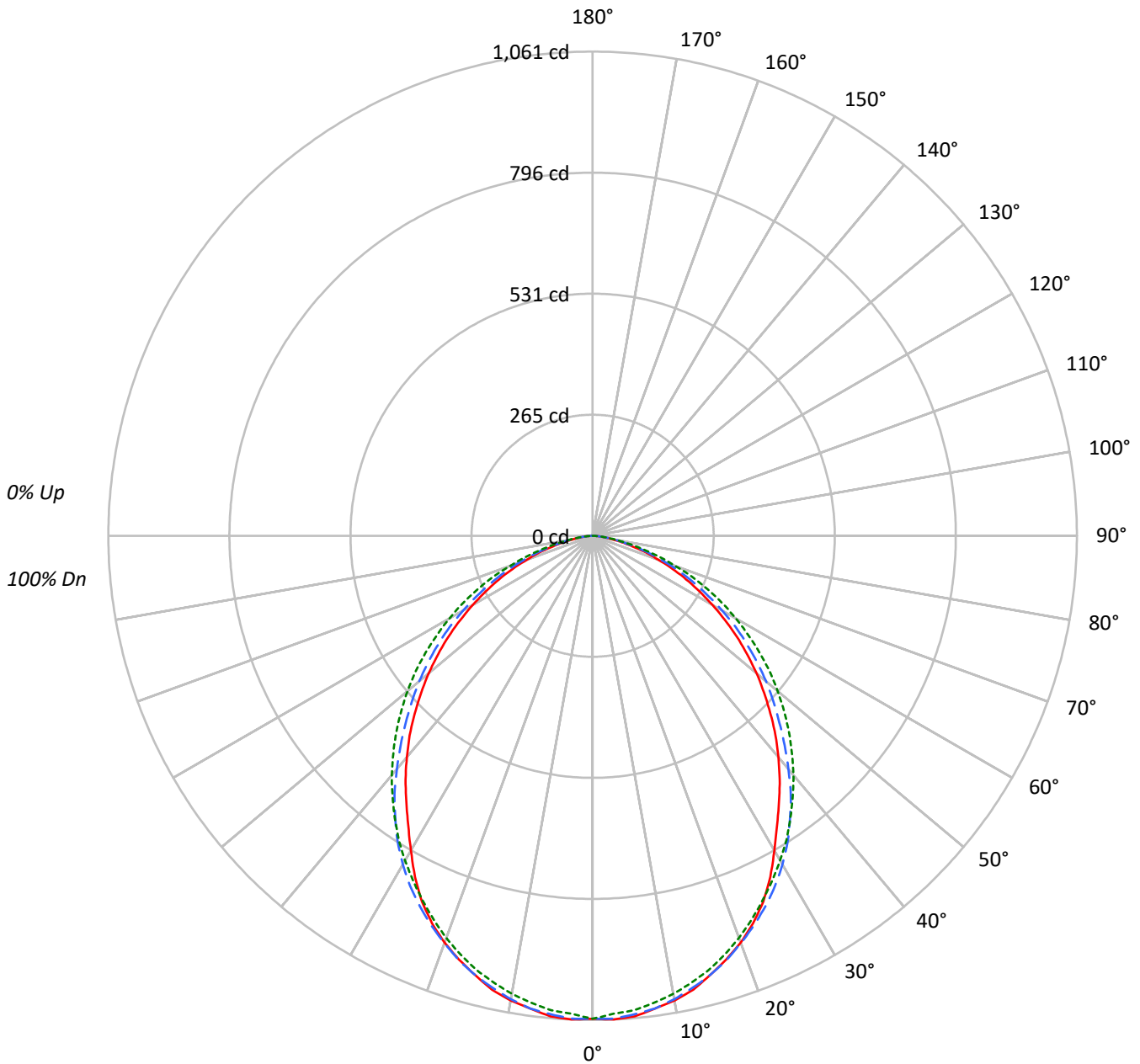
Lumens per Lamp: N/A
Luminaire Lumens: 2447.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P554989

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-96-EDD

Luminous Intensity Polar Plot





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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°	5696	5696	5696
5°	5710	5687	5638
10°	5650	5634	5570
15°	5550	5550	5487
20°	5432	5439	5369
25°	5254	5318	5234
30°	4947	5169	5106
35°	4675	4955	4963
40°	4447	4688	4810
45°	4193	4403	4629
50°	3925	4150	4432
55°	3620	3860	4192
60°	3260	3523	3899
65°	2878	3133	3547
70°	2400	2667	3013
75°	1886	2131	2358
80°	1348	1500	1664
85°	877	877	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	4.1
10°-20°	279.9	11.4
20°-30°	409.0	16.7
30°-40°	464.3	19.0
40°-50°	448.2	18.3
50°-60°	369.7	15.1
60°-70°	246.2	10.1
70°-80°	110.2	4.5
80°-90°	19.7	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°	788.6	32.2
0°-40°	1252.9	51.2
0°-60°	2070.9	84.6
0°-90°	2447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1057	1057	1053	1047	1044	100
15°	996	998	996	992	985	281
25°	885	892	896	889	881	405
35°	712	721	754	758	755	446
45°	551	560	578	605	608	425
55°	386	392	411	434	447	344
65°	226	232	246	263	278	224
75°	91	96	102	107	113	99
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1061.1	1061.5	1059.1	1052.6	1048.5
5°	1057.0	1056.6	1052.6	1046.9	1043.6
7.5°	1045.3	1046.1	1044.8	1036.7	1032.2
10°	1033.9	1034.3	1031.0	1024.5	1019.2
12.5°	1019.2	1018.8	1014.4	1011.1	1002.6
15°	996.1	998.5	996.1	991.6	984.7
17.5°	973.7	973.7	975.3	967.6	962.3
20°	948.5	949.7	949.7	943.6	937.5
22.5°	919.2	922.9	924.1	917.6	910.3
25°	884.7	891.6	895.6	889.1	881.4
27.5°	842.8	853.4	865.6	860.7	852.1
30°	796.0	811.5	831.8	827.7	821.6
32.5°	751.7	767.2	795.2	793.6	790.3
35°	711.5	721.2	754.2	758.2	755.4
37.5°	673.3	682.2	713.1	722.4	720.0
40°	633.0	642.8	667.2	683.8	684.6
42.5°	593.2	602.5	622.4	646.4	646.4
45°	550.9	560.2	578.5	605.0	608.2
47.5°	509.4	519.2	537.1	563.5	568.8
50°	468.8	477.7	495.6	521.2	529.3
52.5°	426.5	436.2	453.7	477.3	489.1
55°	385.8	392.3	411.4	434.2	446.8
57.5°	343.5	349.6	371.2	390.7	403.7
60°	302.9	310.6	327.3	347.2	362.2
62.5°	263.9	272.0	286.2	303.7	320.8
65°	226.0	232.1	246.0	263.4	278.5
67.5°	189.5	194.7	208.6	220.8	236.6
70°	152.5	159.4	169.5	181.3	191.5
72.5°	122.8	125.6	134.2	142.7	153.3
75°	90.7	95.5	102.5	107.3	113.4
77.5°	65.0	67.9	72.0	76.0	81.7
80°	43.5	44.7	48.4	49.2	53.7
82.5°	26.4	27.2	28.1	28.5	30.1
85°	14.2	14.2	14.2	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	4.1
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)