

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: P554929

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-84-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: P554929
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

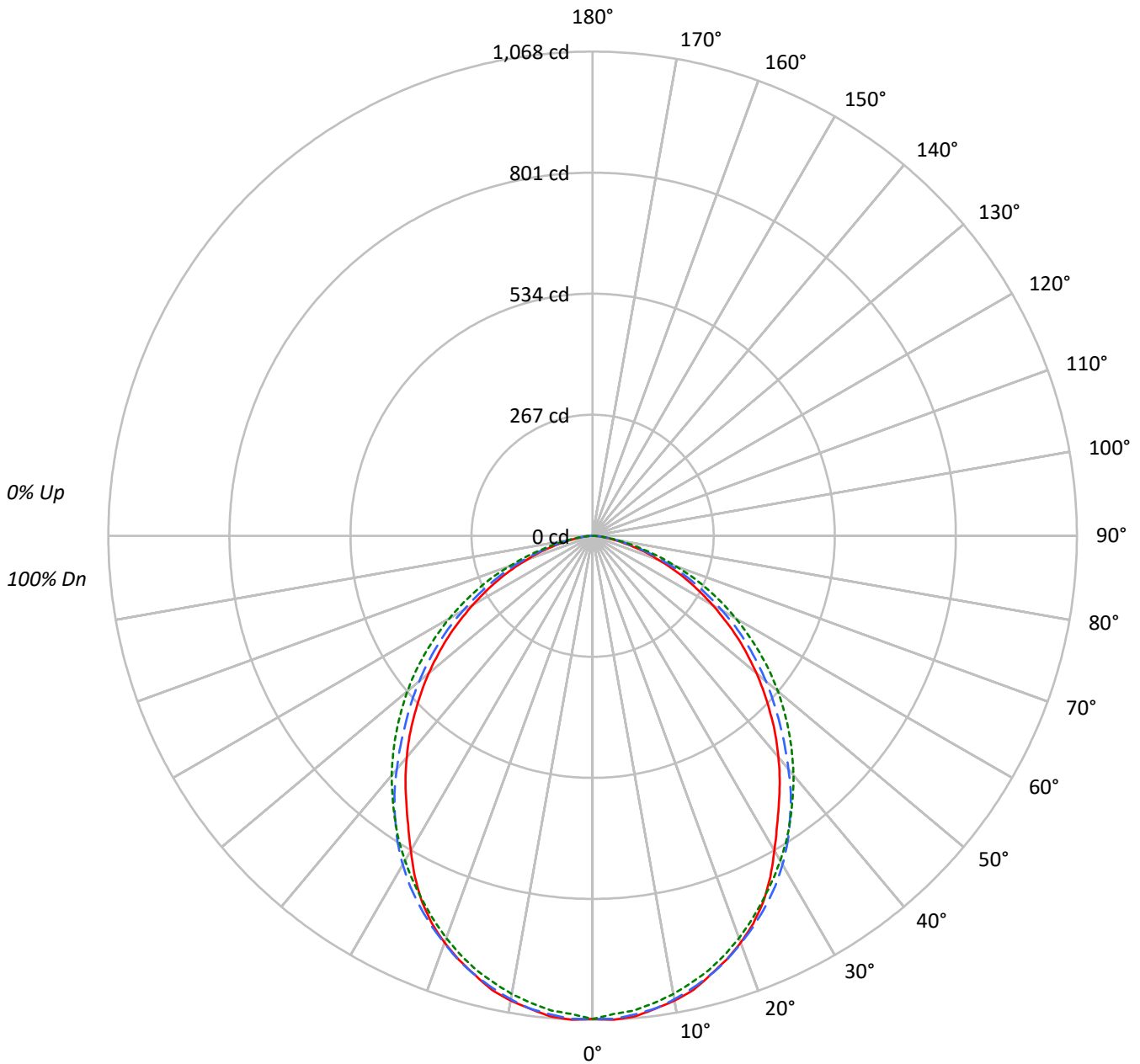
Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P554929

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-80-84-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°	5735	5735	5735
5°	5750	5726	5678
10°	5690	5674	5609
15°	5589	5589	5524
20°	5470	5477	5407
25°	5290	5356	5270
30°	4982	5205	5142
35°	4707	4989	4997
40°	4478	4720	4843
45°	4222	4434	4661
50°	3952	4178	4463
55°	3645	3887	4221
60°	3283	3548	3927
65°	2898	3154	3571
70°	2415	2686	3034
75°	1899	2146	2375
80°	1358	1509	1674
85°	883	883	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	4.1
10°-20°	281.9	11.4
20°-30°	411.9	16.7
30°-40°	467.5	19.0
40°-50°	451.3	18.3
50°-60°	372.3	15.1
60°-70°	247.9	10.1
70°-80°	111.0	4.5
80°-90°	19.8	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°	794.1	32.2
0°-40°	1261.6	51.2
0°-60°	2085.3	84.6
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1064	1064	1060	1054	1051	101
15°	1003	1005	1003	998	992	283
25°	891	898	902	895	888	408
35°	716	726	759	764	761	449
45°	555	564	582	609	612	428
55°	388	395	414	437	450	347
65°	228	234	248	265	280	226
75°	91	96	103	108	114	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.6	1065.6	1065.6	1065.6	1065.6
2.5°	1068.5	1068.9	1066.4	1059.9	1055.8
5°	1064.4	1064.0	1059.9	1054.2	1050.9
7.5°	1052.5	1053.3	1052.1	1043.9	1039.4
10°	1041.1	1041.5	1038.2	1031.6	1026.3
12.5°	1026.3	1025.9	1021.4	1018.1	1009.5
15°	1003.0	1005.4	1003.0	998.5	991.5
17.5°	980.5	980.5	982.1	974.3	969.0
20°	955.1	956.3	956.3	950.2	944.0
22.5°	925.6	929.3	930.5	924.0	916.6
25°	890.8	897.8	901.9	895.3	887.5
27.5°	848.6	859.3	871.6	866.7	858.1
30°	801.6	817.1	837.6	833.5	827.4
32.5°	756.9	772.5	800.7	799.1	795.8
35°	716.4	726.2	759.4	763.5	760.6
37.5°	677.9	686.9	718.1	727.5	725.0
40°	637.4	647.2	671.8	688.6	689.4
42.5°	597.3	606.7	626.8	650.9	650.9
45°	554.7	564.1	582.5	609.2	612.4
47.5°	513.0	522.8	540.8	567.4	572.7
50°	472.0	481.0	499.0	524.8	533.0
52.5°	429.4	439.3	456.9	480.6	492.5
55°	388.5	395.1	414.3	437.2	449.9
57.5°	345.9	352.1	373.8	393.4	406.5
60°	305.0	312.8	329.6	349.6	364.8
62.5°	265.7	273.9	288.2	305.8	323.0
65°	227.6	233.8	247.7	265.3	280.4
67.5°	190.8	196.1	210.0	222.3	238.3
70°	153.5	160.5	170.7	182.6	192.8
72.5°	123.6	126.5	135.1	143.7	154.3
75°	91.3	96.2	103.2	108.1	114.2
77.5°	65.5	68.4	72.5	76.6	82.3
80°	43.8	45.0	48.7	49.5	54.0
82.5°	26.6	27.4	28.2	28.7	30.3
85°	14.3	14.3	14.3	13.5	13.5
87.5°	8.2	8.2	7.0	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)