

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: P553966

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-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: P553966
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-LD4-1HI-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

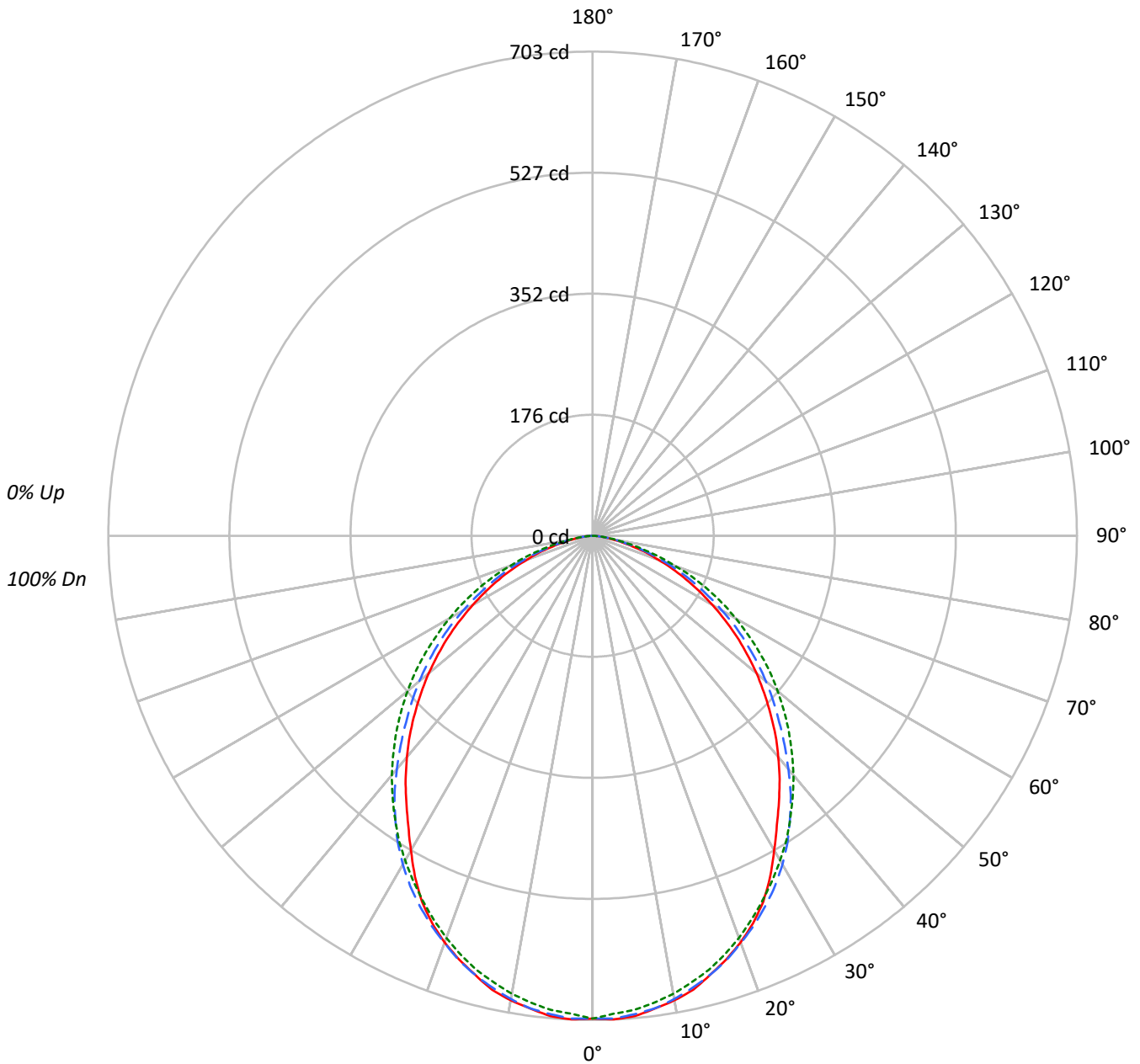
Lumens per Lamp: N/A
Luminaire Lumens: 1621.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

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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°	3773	3773	3773
5°	3783	3767	3735
10°	3743	3733	3690
15°	3676	3676	3634
20°	3599	3603	3557
25°	3480	3523	3467
30°	3277	3424	3383
35°	3097	3282	3288
40°	2946	3105	3186
45°	2777	2917	3067
50°	2600	2749	2936
55°	2398	2558	2777
60°	2159	2334	2583
65°	1906	2074	2350
70°	1589	1767	1995
75°	1250	1412	1562
80°	893	992	1103
85°	580	580	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	4.1
10°-20°	185.4	11.4
20°-30°	271.0	16.7
30°-40°	307.6	19.0
40°-50°	296.9	18.3
50°-60°	244.9	15.1
60°-70°	163.1	10.1
70°-80°	73.0	4.5
80°-90°	13.1	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°	522.4	32.2
0°-40°	830.0	51.2
0°-60°	1371.9	84.6
0°-90°	1621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	700	700	697	694	691	66
15°	660	662	660	657	652	186
25°	586	591	593	589	584	268
35°	471	478	500	502	500	295
45°	365	371	383	401	403	282
55°	256	260	273	288	296	228
65°	150	154	163	174	184	148
75°	60	63	68	71	75	66
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.0	701.0	701.0	701.0	701.0
2.5°	702.9	703.2	701.6	697.3	694.6
5°	700.2	700.0	697.3	693.5	691.3
7.5°	692.4	693.0	692.2	686.8	683.8
10°	684.9	685.2	683.0	678.7	675.2
12.5°	675.2	674.9	672.0	669.8	664.1
15°	659.8	661.5	659.8	656.9	652.3
17.5°	645.0	645.0	646.1	641.0	637.5
20°	628.3	629.1	629.1	625.1	621.1
22.5°	608.9	611.4	612.2	607.9	603.0
25°	586.0	590.6	593.3	589.0	583.9
27.5°	558.3	565.3	573.4	570.2	564.5
30°	527.3	537.6	551.0	548.3	544.3
32.5°	498.0	508.2	526.8	525.7	523.6
35°	471.3	477.8	499.6	502.3	500.4
37.5°	446.0	451.9	472.4	478.6	477.0
40°	419.3	425.8	442.0	453.0	453.5
42.5°	392.9	399.1	412.3	428.2	428.2
45°	364.9	371.1	383.2	400.7	402.9
47.5°	337.5	343.9	355.8	373.3	376.8
50°	310.5	316.5	328.3	345.3	350.7
52.5°	282.5	289.0	300.6	316.2	324.0
55°	255.6	259.9	272.6	287.6	296.0
57.5°	227.6	231.6	245.9	258.8	267.4
60°	200.6	205.8	216.8	230.0	240.0
62.5°	174.8	180.2	189.6	201.2	212.5
65°	149.7	153.8	162.9	174.5	184.5
67.5°	125.5	129.0	138.2	146.2	156.7
70°	101.0	105.6	112.3	120.1	126.8
72.5°	81.3	83.2	88.9	94.5	101.5
75°	60.1	63.3	67.9	71.1	75.1
77.5°	43.1	45.0	47.7	50.4	54.1
80°	28.8	29.6	32.0	32.6	35.6
82.5°	17.5	18.0	18.6	18.9	19.9
85°	9.4	9.4	9.4	8.9	8.9
87.5°	5.4	5.4	4.6	3.8	2.7
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)