

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: P553850

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-94-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: P553850
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-30-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

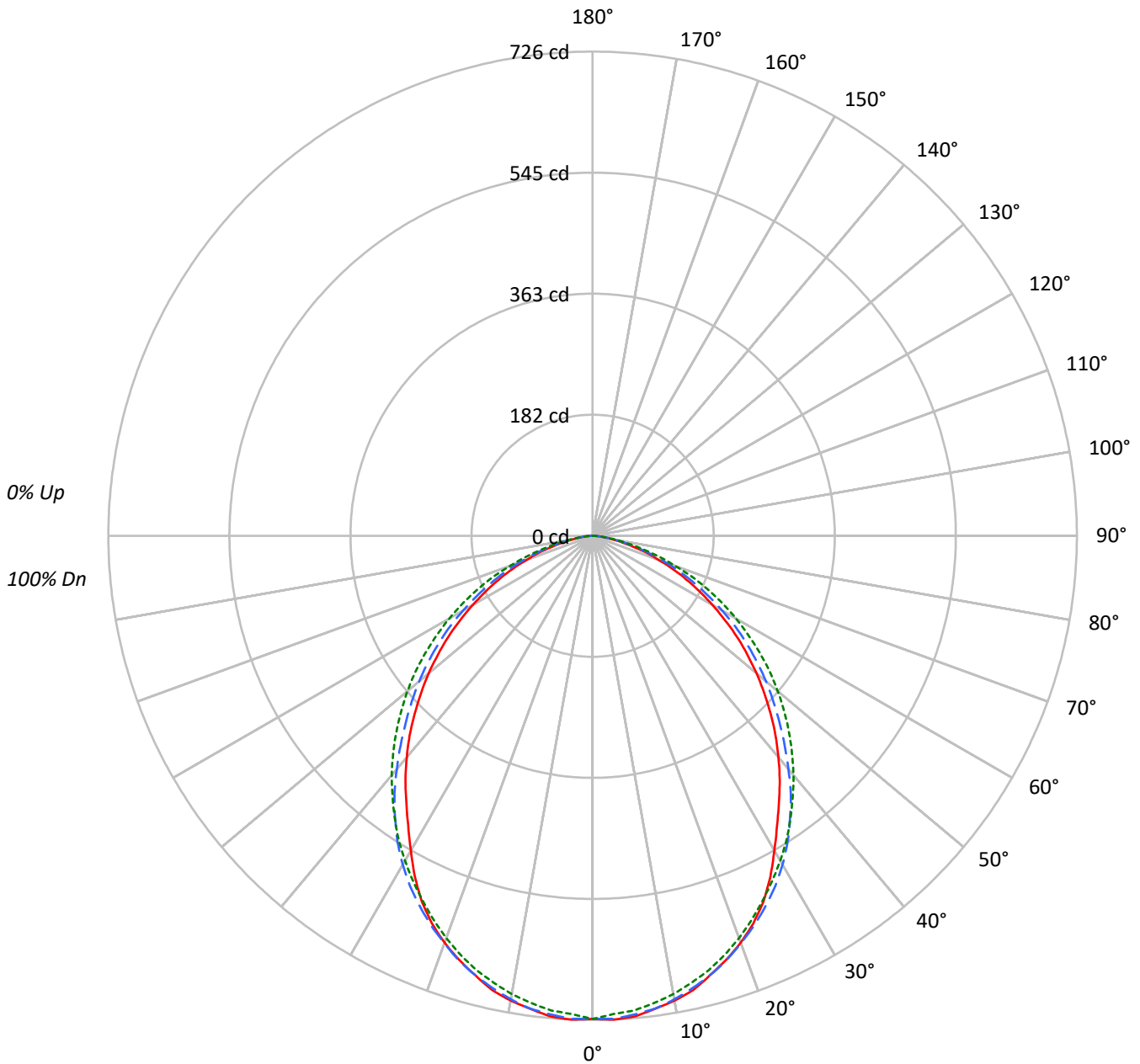
Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3899	3899	3899
5°	3909	3893	3860
10°	3868	3857	3813
15°	3799	3799	3755
20°	3719	3723	3675
25°	3596	3641	3583
30°	3386	3539	3495
35°	3200	3392	3397
40°	3044	3209	3292
45°	2870	3014	3169
50°	2687	2840	3033
55°	2478	2642	2869
60°	2231	2411	2669
65°	1970	2145	2427
70°	1643	1825	2063
75°	1291	1458	1614
80°	924	1026	1137
85°	599	599	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	4.1
10°-20°	191.6	11.4
20°-30°	280.0	16.7
30°-40°	317.8	19.0
40°-50°	306.8	18.3
50°-60°	253.1	15.1
60°-70°	168.5	10.1
70°-80°	75.4	4.5
80°-90°	13.5	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°	539.8	32.2
0°-40°	857.6	51.2
0°-60°	1417.5	84.6
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	724	723	720	717	714	68
15°	682	684	682	679	674	192
25°	606	610	613	609	603	277
35°	487	494	516	519	517	305
45°	377	384	396	414	416	291
55°	264	269	282	297	306	236
65°	155	159	168	180	191	153
75°	62	65	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.4	724.4	724.4	724.4	724.4
2.5°	726.3	726.6	725.0	720.5	717.7
5°	723.6	723.3	720.5	716.6	714.4
7.5°	715.5	716.0	715.2	709.6	706.6
10°	707.7	708.0	705.7	701.3	697.7
12.5°	697.7	697.4	694.3	692.1	686.3
15°	681.8	683.5	681.8	678.8	674.0
17.5°	666.5	666.5	667.6	662.3	658.7
20°	649.3	650.1	650.1	645.9	641.7
22.5°	629.2	631.7	632.6	628.1	623.1
25°	605.6	610.3	613.1	608.6	603.3
27.5°	576.9	584.1	592.5	589.1	583.3
30°	544.9	555.5	569.4	566.6	562.4
32.5°	514.6	525.1	544.3	543.2	541.0
35°	487.0	493.7	516.2	519.0	517.1
37.5°	460.9	467.0	488.1	494.5	492.9
40°	433.3	440.0	456.7	468.1	468.6
42.5°	406.0	412.4	426.1	442.5	442.5
45°	377.1	383.5	396.0	414.1	416.3
47.5°	348.7	355.4	367.6	385.7	389.3
50°	320.9	327.0	339.2	356.8	362.3
52.5°	291.9	298.6	310.6	326.7	334.8
55°	264.1	268.6	281.6	297.2	305.8
57.5°	235.2	239.3	254.1	267.4	276.3
60°	207.3	212.6	224.0	237.7	248.0
62.5°	180.6	186.2	195.9	207.9	219.6
65°	154.7	158.9	168.4	180.3	190.6
67.5°	129.7	133.3	142.8	151.1	162.0
70°	104.4	109.1	116.0	124.1	131.1
72.5°	84.0	86.0	91.8	97.7	104.9
75°	62.1	65.4	70.1	73.5	77.6
77.5°	44.5	46.5	49.3	52.0	55.9
80°	29.8	30.6	33.1	33.7	36.7
82.5°	18.1	18.6	19.2	19.5	20.6
85°	9.7	9.7	9.7	9.2	9.2
87.5°	5.6	5.6	4.7	3.9	2.8
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)