

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: P554539

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-93-94-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: P554539
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-LD4-1STD-40-UNV-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

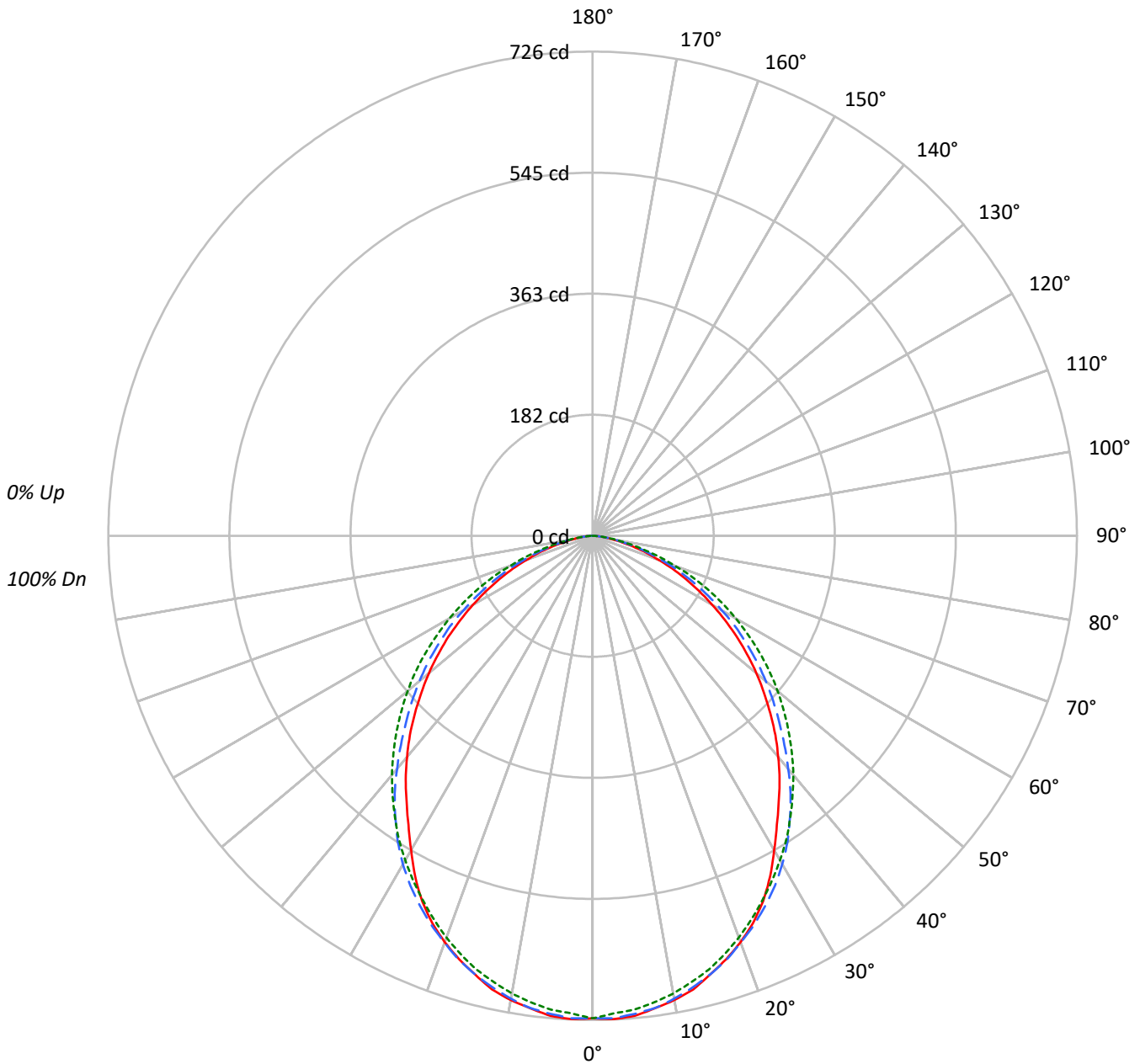
Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3894	3894	3894
5°	3904	3888	3855
10°	3863	3852	3808
15°	3794	3794	3751
20°	3714	3719	3671
25°	3592	3636	3578
30°	3382	3534	3491
35°	3196	3388	3393
40°	3041	3204	3289
45°	2866	3010	3165
50°	2683	2837	3030
55°	2475	2639	2867
60°	2229	2409	2666
65°	1968	2142	2425
70°	1640	1824	2060
75°	1289	1456	1614
80°	921	1026	1137
85°	599	599	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	4.1
10°-20°	191.4	11.4
20°-30°	279.7	16.7
30°-40°	317.4	19.0
40°-50°	306.4	18.3
50°-60°	252.8	15.1
60°-70°	168.3	10.1
70°-80°	75.3	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°	539.2	32.2
0°-40°	856.6	51.2
0°-60°	1415.8	84.6
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	722	720	716	714	68
15°	681	683	681	678	673	192
25°	605	610	612	608	603	277
35°	486	493	516	518	516	305
45°	377	383	396	414	416	291
55°	264	268	281	297	306	235
65°	154	159	168	180	190	153
75°	62	65	70	73	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°	723.5	723.5	723.5	723.5	723.5
2.5°	725.5	725.8	724.1	719.6	716.9
5°	722.7	722.4	719.6	715.7	713.5
7.5°	714.6	715.2	714.4	708.8	705.7
10°	706.9	707.1	704.9	700.5	696.8
12.5°	696.8	696.6	693.5	691.3	685.4
15°	681.0	682.7	681.0	677.9	673.2
17.5°	665.7	665.7	666.8	661.5	657.9
20°	648.5	649.3	649.3	645.1	641.0
22.5°	628.5	631.0	631.8	627.4	622.4
25°	604.8	609.6	612.3	607.9	602.6
27.5°	576.2	583.4	591.8	588.4	582.6
30°	544.2	554.8	568.7	565.9	561.8
32.5°	513.9	524.5	543.7	542.6	540.4
35°	486.4	493.1	515.6	518.4	516.4
37.5°	460.3	466.4	487.5	493.9	492.3
40°	432.8	439.5	456.1	467.5	468.1
42.5°	405.5	411.9	425.6	442.0	442.0
45°	376.6	383.0	395.5	413.6	415.8
47.5°	348.3	355.0	367.2	385.3	388.9
50°	320.5	326.6	338.8	356.3	361.9
52.5°	291.6	298.3	310.2	326.3	334.4
55°	263.8	268.2	281.3	296.9	305.5
57.5°	234.9	239.0	253.8	267.1	276.0
60°	207.1	212.4	223.8	237.4	247.7
62.5°	180.4	186.0	195.7	207.6	219.3
65°	154.5	158.7	168.2	180.1	190.4
67.5°	129.5	133.1	142.6	150.9	161.8
70°	104.2	109.0	115.9	124.0	130.9
72.5°	83.9	85.9	91.7	97.6	104.8
75°	62.0	65.3	70.0	73.4	77.6
77.5°	44.5	46.4	49.2	52.0	55.9
80°	29.7	30.6	33.1	33.6	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)