

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: P553888

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-84-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: P553888
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

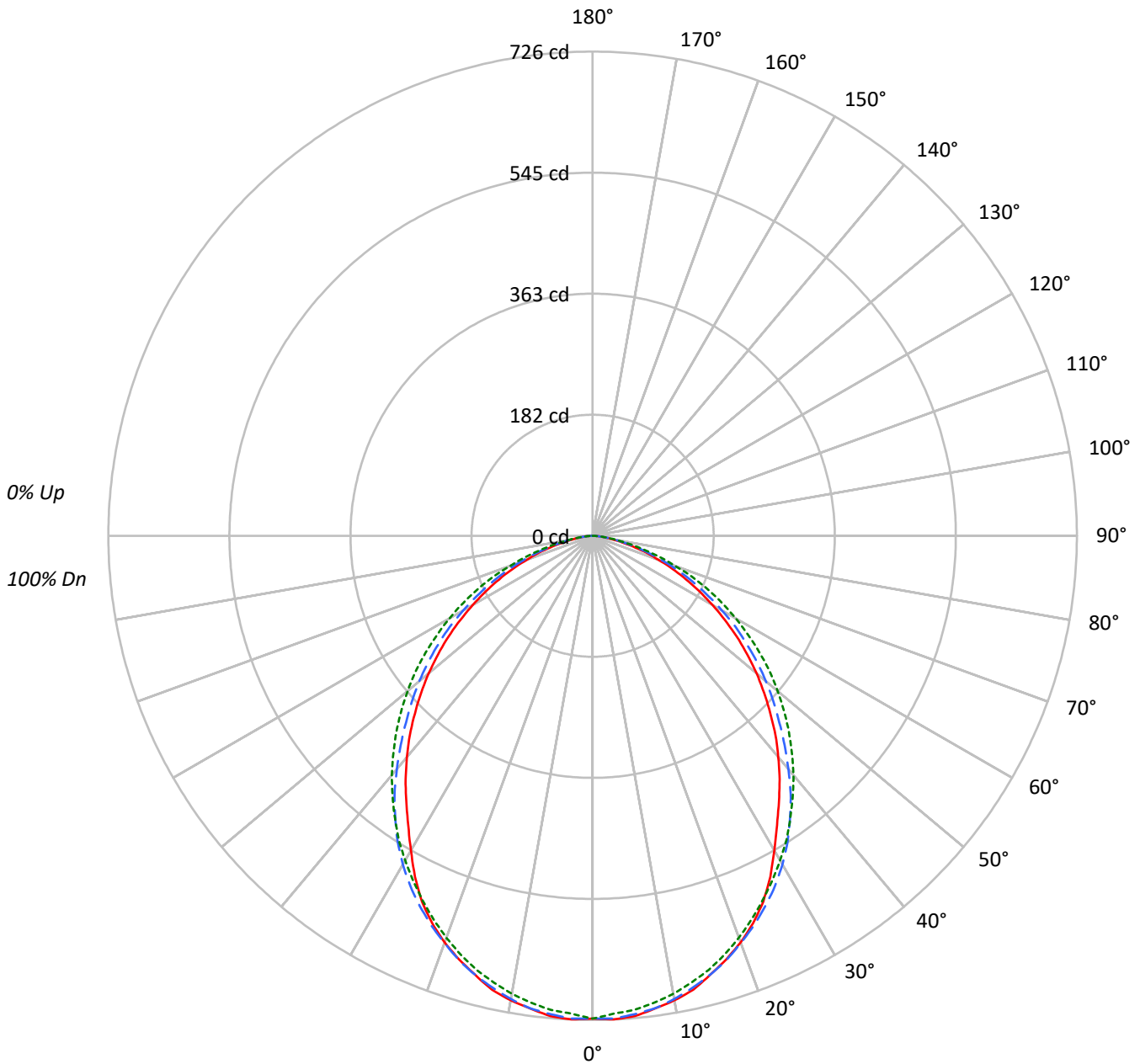
Lumens per Lamp: N/A
Luminaire Lumens: 1674.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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: P553888

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-93-84-EDD-90

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°	3897	3897	3897
5°	3907	3890	3857
10°	3865	3854	3811
15°	3797	3797	3753
20°	3716	3721	3674
25°	3594	3638	3581
30°	3384	3536	3493
35°	3198	3390	3395
40°	3042	3207	3291
45°	2869	3013	3167
50°	2685	2838	3032
55°	2476	2641	2868
60°	2230	2410	2667
65°	1969	2143	2426
70°	1641	1825	2061
75°	1289	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°	191.5	11.4
20°-30°	279.8	16.7
30°-40°	317.6	19.0
40°-50°	306.6	18.3
50°-60°	252.9	15.1
60°-70°	168.4	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°	539.5	32.2
0°-40°	857.1	51.2
0°-60°	1416.7	84.6
0°-90°	1674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	723	720	716	714	68
15°	681	683	681	678	674	192
25°	605	610	613	608	603	277
35°	487	493	516	519	517	305
45°	377	383	396	414	416	291
55°	264	268	282	297	306	236
65°	155	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°	724.0	724.0	724.0	724.0	724.0
2.5°	725.9	726.2	724.5	720.1	717.3
5°	723.1	722.8	720.1	716.2	713.9
7.5°	715.1	715.6	714.8	709.2	706.2
10°	707.3	707.6	705.3	700.9	697.3
12.5°	697.3	697.0	693.9	691.7	685.9
15°	681.4	683.1	681.4	678.3	673.6
17.5°	666.1	666.1	667.2	661.9	658.3
20°	648.9	649.7	649.7	645.5	641.4
22.5°	628.8	631.3	632.2	627.7	622.7
25°	605.2	609.9	612.7	608.3	603.0
27.5°	576.6	583.8	592.1	588.8	583.0
30°	544.6	555.1	569.0	566.3	562.1
32.5°	514.3	524.8	544.0	542.9	540.7
35°	486.7	493.4	515.9	518.7	516.8
37.5°	460.6	466.7	487.8	494.2	492.6
40°	433.0	439.7	456.4	467.8	468.4
42.5°	405.8	412.2	425.8	442.2	442.2
45°	376.9	383.3	395.8	413.9	416.1
47.5°	348.5	355.2	367.4	385.5	389.1
50°	320.7	326.8	339.0	356.6	362.1
52.5°	291.8	298.4	310.4	326.5	334.6
55°	263.9	268.4	281.5	297.0	305.7
57.5°	235.0	239.2	253.9	267.3	276.2
60°	207.2	212.5	223.9	237.5	247.8
62.5°	180.5	186.1	195.8	207.8	219.4
65°	154.6	158.8	168.3	180.2	190.5
67.5°	129.6	133.2	142.7	151.0	161.9
70°	104.3	109.0	116.0	124.0	131.0
72.5°	84.0	85.9	91.8	97.6	104.9
75°	62.0	65.4	70.1	73.4	77.6
77.5°	44.5	46.4	49.2	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)