

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: P554090

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-93-94-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: P554090
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-50-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

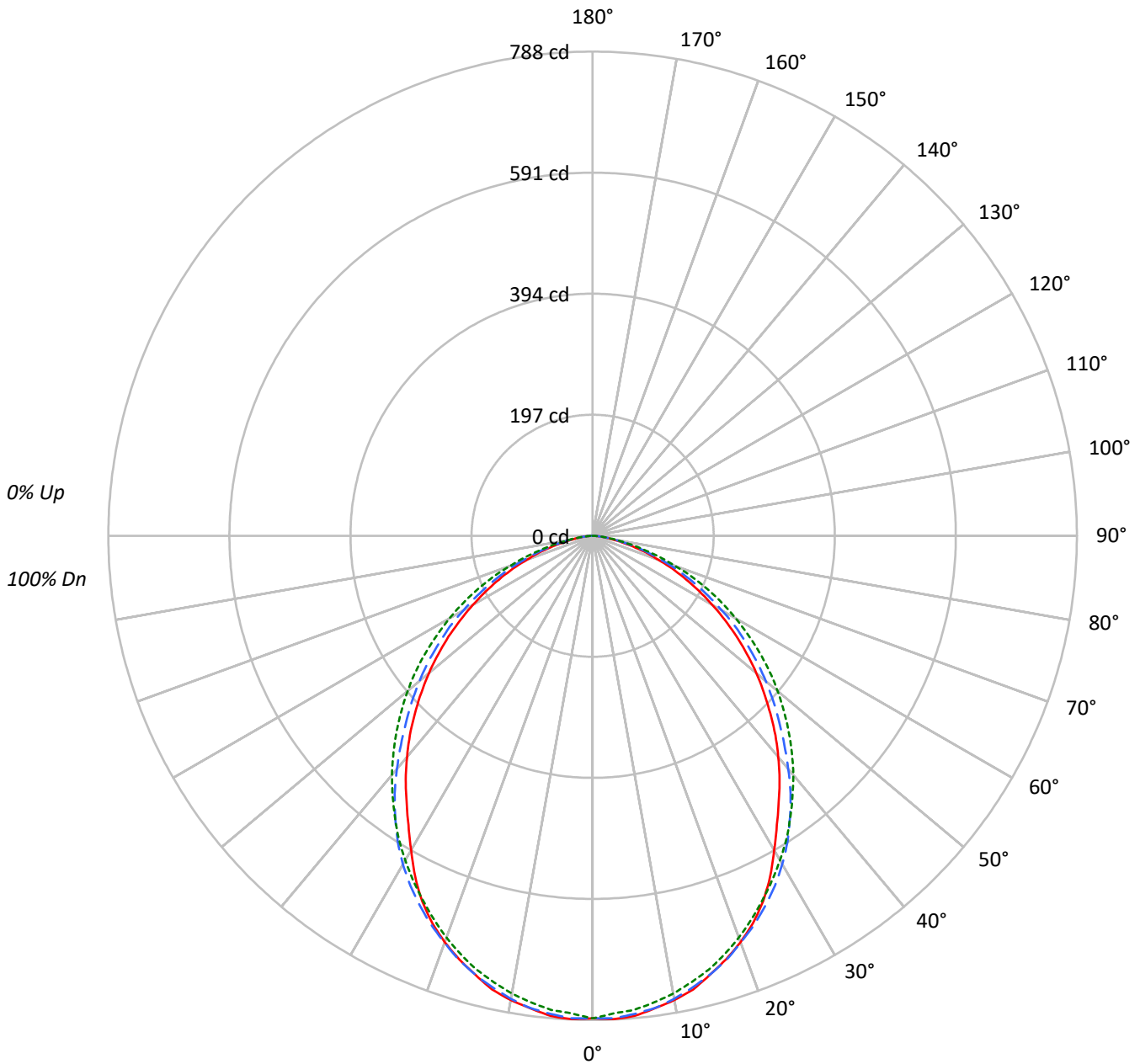
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4227	4227	4227
5°	4238	4220	4184
10°	4193	4182	4134
15°	4119	4119	4072
20°	4031	4037	3985
25°	3899	3947	3884
30°	3672	3836	3790
35°	3469	3677	3683
40°	3301	3478	3570
45°	3111	3268	3436
50°	2913	3080	3289
55°	2686	2865	3111
60°	2420	2615	2893
65°	2137	2324	2632
70°	1780	1980	2236
75°	1399	1580	1751
80°	1001	1113	1234
85°	655	655	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	4.1
10°-20°	207.7	11.4
20°-30°	303.6	16.7
30°-40°	344.6	19.0
40°-50°	332.6	18.3
50°-60°	274.4	15.1
60°-70°	182.7	10.1
70°-80°	81.8	4.5
80°-90°	14.6	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°	585.2	32.2
0°-40°	929.8	51.2
0°-60°	1536.9	84.6
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	784	784	781	777	774	74
15°	739	741	739	736	731	208
25°	656	662	665	660	654	301
35°	528	535	560	563	561	331
45°	409	416	429	449	451	315
55°	286	291	305	322	332	256
65°	168	172	182	196	207	166
75°	67	71	76	80	84	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.4	785.4	785.4	785.4	785.4
2.5°	787.5	787.8	786.0	781.1	778.1
5°	784.5	784.2	781.1	776.9	774.5
7.5°	775.7	776.3	775.4	769.4	766.1
10°	767.3	767.6	765.2	760.3	756.4
12.5°	756.4	756.1	752.8	750.4	744.0
15°	739.2	741.0	739.2	735.9	730.8
17.5°	722.6	722.6	723.8	718.1	714.2
20°	703.9	704.8	704.8	700.3	695.8
22.5°	682.2	684.9	685.8	681.0	675.5
25°	656.5	661.7	664.7	659.9	654.1
27.5°	625.5	633.3	642.4	638.7	632.4
30°	590.8	602.2	617.3	614.3	609.8
32.5°	557.9	569.3	590.2	589.0	586.5
35°	528.0	535.2	559.7	562.7	560.6
37.5°	499.6	506.3	529.2	536.2	534.3
40°	469.8	477.0	495.1	507.5	508.1
42.5°	440.2	447.1	461.9	479.7	479.7
45°	408.8	415.8	429.3	449.0	451.4
47.5°	378.1	385.3	398.6	418.2	422.1
50°	347.9	354.5	367.8	386.8	392.8
52.5°	316.5	323.7	336.7	354.2	363.0
55°	286.3	291.2	305.3	322.2	331.6
57.5°	255.0	259.5	275.5	290.0	299.6
60°	224.8	230.5	242.9	257.7	268.8
62.5°	195.8	201.8	212.4	225.4	238.1
65°	167.8	172.3	182.5	195.5	206.7
67.5°	140.6	144.5	154.8	163.8	175.6
70°	113.1	118.3	125.8	134.6	142.1
72.5°	91.1	93.2	99.6	105.9	113.7
75°	67.3	70.9	76.0	79.7	84.2
77.5°	48.3	50.4	53.4	56.4	60.6
80°	32.3	33.2	35.9	36.5	39.8
82.5°	19.6	20.2	20.8	21.1	22.3
85°	10.6	10.6	10.6	10.0	10.0
87.5°	6.0	6.0	5.1	4.2	3.0
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)