

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: P553899

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-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: P553899
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-93-94-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
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

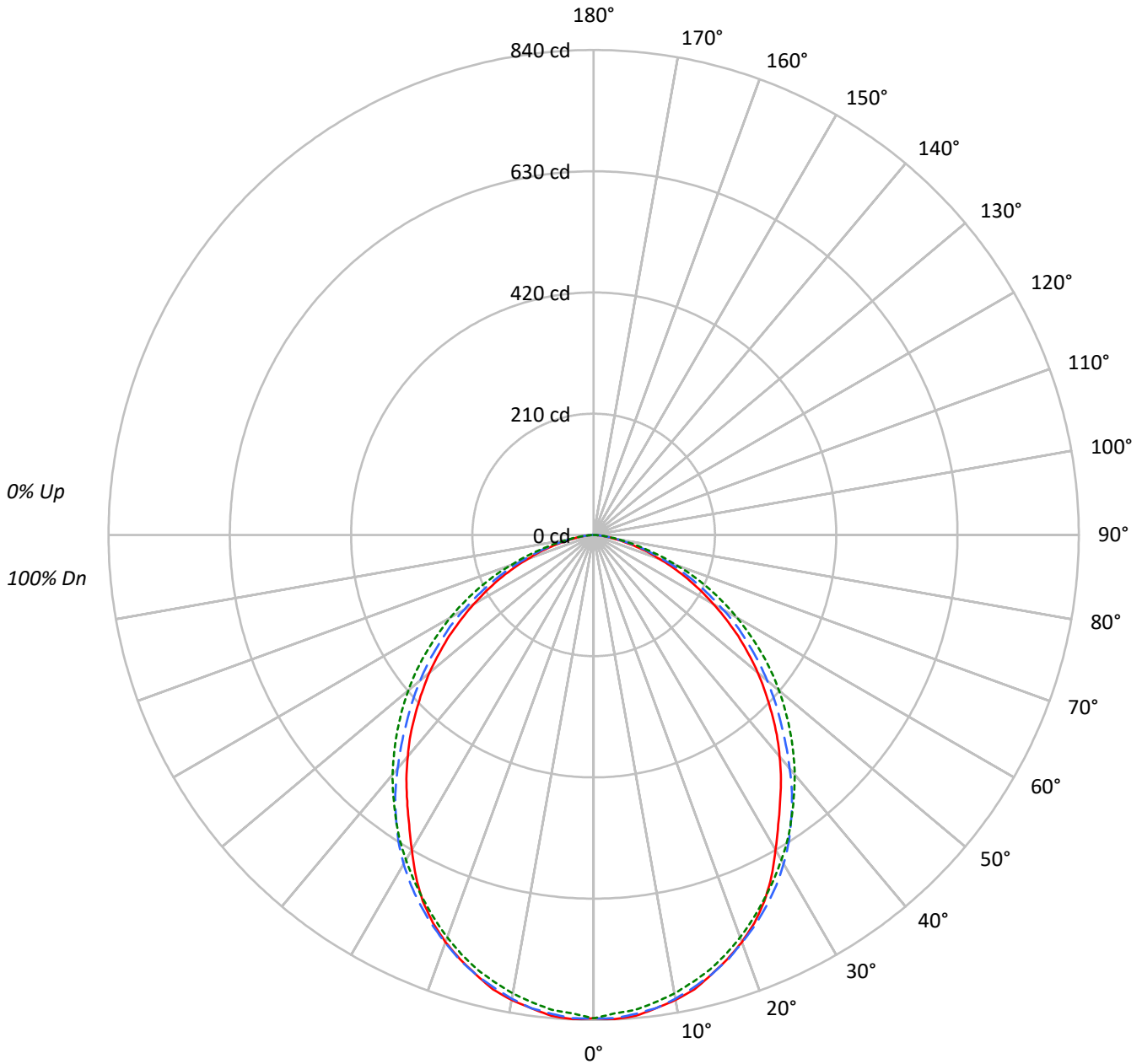
Lumens per Lamp: N/A
Luminaire Lumens: 1936.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4506	4506	4506
5°	4518	4499	4461
10°	4470	4458	4407
15°	4391	4391	4341
20°	4298	4304	4248
25°	4156	4208	4141
30°	3914	4090	4040
35°	3698	3920	3926
40°	3518	3708	3806
45°	3317	3484	3663
50°	3105	3283	3507
55°	2865	3054	3317
60°	2579	2787	3085
65°	2277	2478	2805
70°	1898	2110	2384
75°	1491	1686	1865
80°	1066	1187	1317
85°	698	698	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	4.1
10°-20°	221.5	11.4
20°-30°	323.6	16.7
30°-40°	367.4	19.0
40°-50°	354.6	18.3
50°-60°	292.5	15.1
60°-70°	194.8	10.1
70°-80°	87.2	4.5
80°-90°	15.6	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°	623.9	32.2
0°-40°	991.3	51.2
0°-60°	1638.4	84.6
0°-90°	1936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	836	836	833	828	826	79
15°	788	790	788	784	779	222
25°	700	705	709	704	697	321
35°	563	571	597	600	598	353
45°	436	443	458	479	481	336
55°	305	310	326	344	354	272
65°	179	184	195	208	220	177
75°	72	76	81	85	90	78
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.3	837.3	837.3	837.3	837.3
2.5°	839.5	839.8	837.9	832.8	829.6
5°	836.3	836.0	832.8	828.3	825.7
7.5°	827.0	827.6	826.7	820.2	816.7
10°	818.0	818.3	815.7	810.6	806.4
12.5°	806.4	806.1	802.5	800.0	793.2
15°	788.1	790.0	788.1	784.5	779.1
17.5°	770.4	770.4	771.7	765.5	761.4
20°	750.4	751.4	751.4	746.6	741.7
22.5°	727.3	730.2	731.1	726.0	720.2
25°	699.9	705.4	708.6	703.5	697.3
27.5°	666.8	675.2	684.8	680.9	674.2
30°	629.8	642.0	658.1	654.9	650.1
32.5°	594.7	607.0	629.2	627.9	625.3
35°	562.9	570.6	596.7	599.9	597.6
37.5°	532.7	539.7	564.2	571.6	569.7
40°	500.8	508.5	527.8	541.0	541.7
42.5°	469.3	476.7	492.5	511.4	511.4
45°	435.8	443.2	457.7	478.6	481.2
47.5°	403.0	410.8	424.9	445.8	450.0
50°	370.9	377.9	392.1	412.4	418.8
52.5°	337.4	345.1	359.0	377.6	387.0
55°	305.3	310.4	325.5	343.5	353.5
57.5°	271.8	276.6	293.7	309.1	319.4
60°	239.6	245.7	258.9	274.7	286.6
62.5°	208.8	215.2	226.4	240.3	253.8
65°	178.8	183.7	194.6	208.4	220.3
67.5°	149.9	154.1	165.0	174.7	187.2
70°	120.6	126.1	134.1	143.5	151.5
72.5°	97.1	99.4	106.1	112.9	121.3
75°	71.7	75.6	81.1	84.9	89.7
77.5°	51.5	53.7	56.9	60.1	64.7
80°	34.4	35.4	38.3	38.9	42.5
82.5°	20.9	21.6	22.2	22.5	23.8
85°	11.3	11.3	11.3	10.6	10.6
87.5°	6.4	6.4	5.5	4.5	3.2
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)