

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: P554007

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-82-87-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: P554007
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-40-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

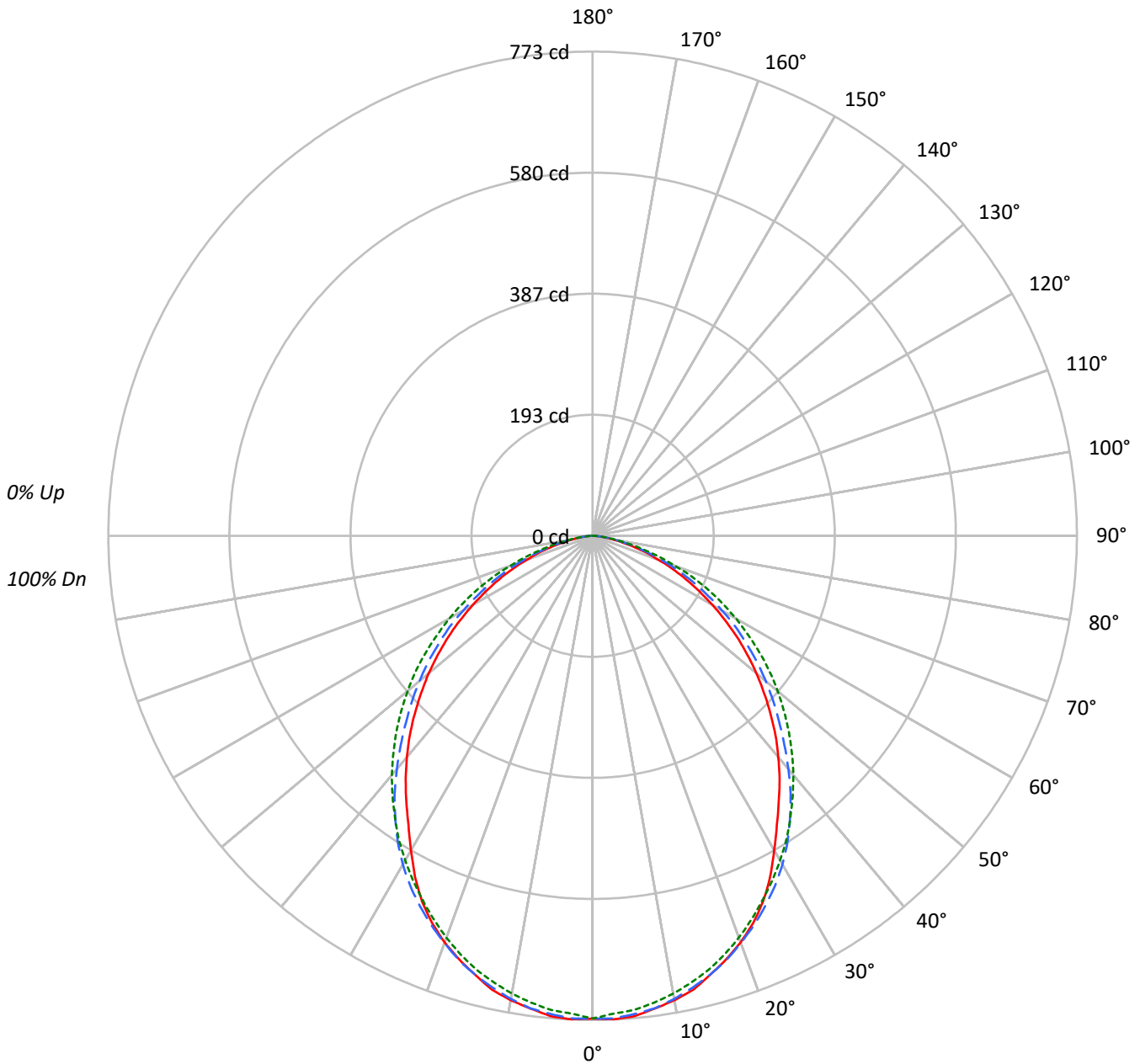
Lumens per Lamp: N/A
Luminaire Lumens: 1782.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	4148	4148	4148
5°	4159	4141	4106
10°	4115	4103	4056
15°	4042	4042	3996
20°	3956	3961	3910
25°	3825	3873	3812
30°	3603	3765	3719
35°	3404	3608	3614
40°	3239	3414	3503
45°	3054	3207	3371
50°	2858	3022	3228
55°	2637	2811	3053
60°	2375	2565	2840
65°	2096	2281	2583
70°	1747	1943	2194
75°	1372	1551	1718
80°	982	1091	1212
85°	642	642	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	4.1
10°-20°	203.8	11.4
20°-30°	297.9	16.7
30°-40°	338.1	19.0
40°-50°	326.4	18.3
50°-60°	269.3	15.1
60°-70°	179.3	10.1
70°-80°	80.2	4.5
80°-90°	14.4	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°	574.3	32.2
0°-40°	912.4	51.2
0°-60°	1508.1	84.6
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	770	770	766	762	760	73
15°	725	727	725	722	717	204
25°	644	649	652	648	642	295
35°	518	525	549	552	550	325
45°	401	408	421	441	443	310
55°	281	286	300	316	325	251
65°	165	169	179	192	203	163
75°	66	70	75	78	83	72
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.7	770.7	770.7	770.7	770.7
2.5°	772.7	773.0	771.3	766.5	763.6
5°	769.8	769.5	766.5	762.4	760.0
7.5°	761.2	761.8	760.9	755.0	751.7
10°	752.9	753.2	750.8	746.1	742.2
12.5°	742.2	742.0	738.7	736.3	730.1
15°	725.4	727.1	725.4	722.1	717.1
17.5°	709.1	709.1	710.3	704.6	700.8
20°	690.7	691.6	691.6	687.2	682.7
22.5°	669.4	672.1	673.0	668.2	662.9
25°	644.2	649.3	652.2	647.5	641.9
27.5°	613.8	621.4	630.3	626.8	620.6
30°	579.7	591.0	605.8	602.8	598.4
32.5°	547.4	558.7	579.1	577.9	575.6
35°	518.1	525.2	549.2	552.2	550.1
37.5°	490.3	496.8	519.3	526.1	524.3
40°	461.0	468.1	485.9	498.0	498.6
42.5°	432.0	438.8	453.3	470.8	470.8
45°	401.2	408.0	421.3	440.6	442.9
47.5°	371.0	378.1	391.1	410.4	414.2
50°	341.4	347.9	360.9	379.6	385.5
52.5°	310.6	317.7	330.4	347.6	356.2
55°	281.0	285.7	299.6	316.2	325.4
57.5°	250.2	254.6	270.3	284.5	294.0
60°	220.6	226.2	238.3	252.8	263.8
62.5°	192.1	198.1	208.4	221.2	233.6
65°	164.6	169.1	179.1	191.9	202.8
67.5°	138.0	141.8	151.9	160.8	172.3
70°	111.0	116.1	123.5	132.0	139.4
72.5°	89.4	91.5	97.7	103.9	111.6
75°	66.0	69.6	74.6	78.2	82.6
77.5°	47.4	49.4	52.4	55.4	59.5
80°	31.7	32.6	35.2	35.8	39.1
82.5°	19.2	19.8	20.4	20.7	21.9
85°	10.4	10.4	10.4	9.8	9.8
87.5°	5.9	5.9	5.0	4.1	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)