

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: P554507

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-81-94-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: P554507
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

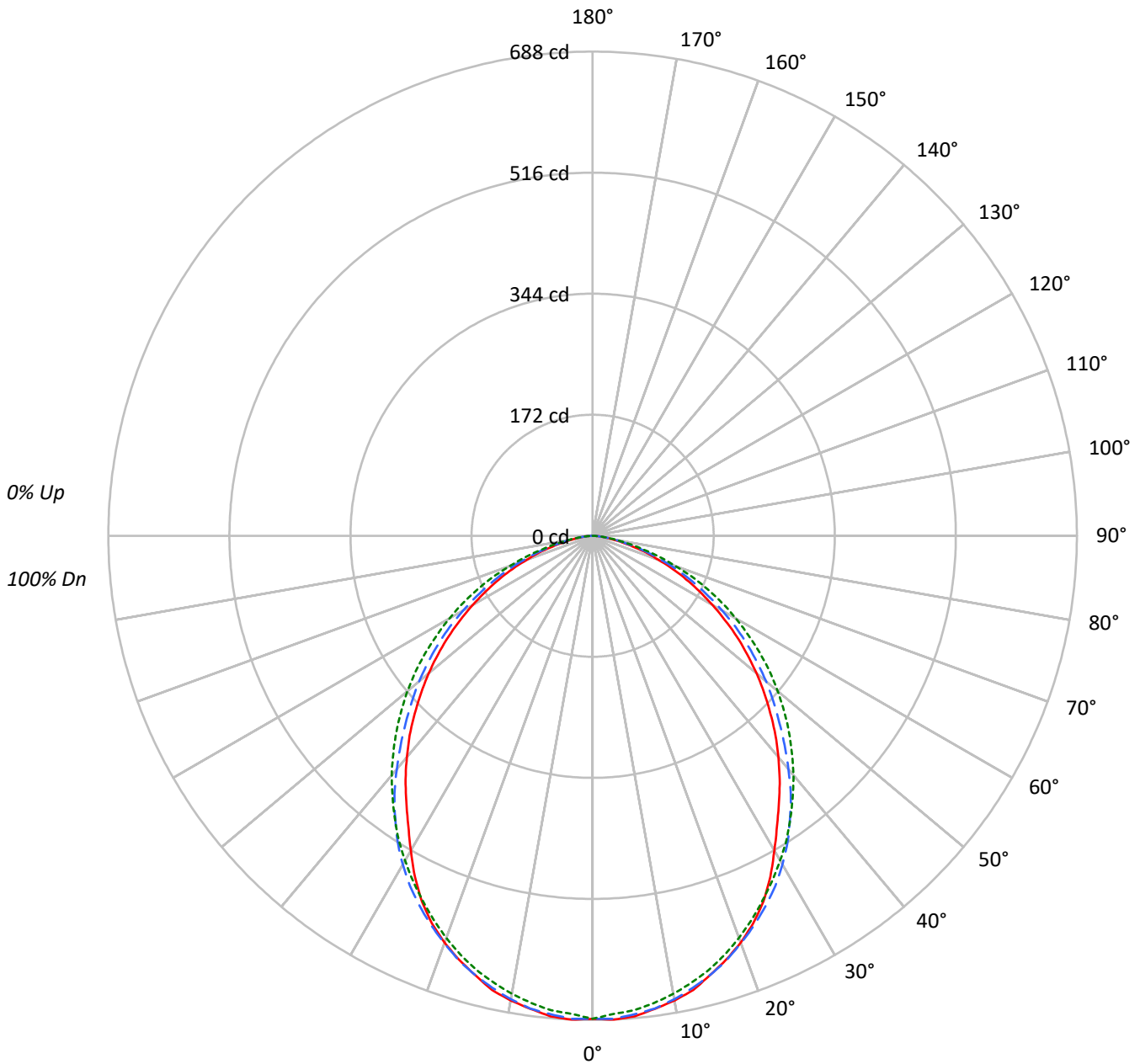
Lumens per Lamp: N/A
Luminaire Lumens: 1587.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3694	3694	3694
5°	3703	3688	3656
10°	3664	3654	3612
15°	3599	3599	3558
20°	3523	3527	3482
25°	3407	3450	3394
30°	3209	3353	3312
35°	3031	3213	3219
40°	2884	3040	3119
45°	2719	2856	3003
50°	2545	2691	2874
55°	2348	2503	2719
60°	2114	2285	2528
65°	1867	2031	2300
70°	1556	1731	1954
75°	1223	1381	1530
80°	874	973	1079
85°	568	568	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	4.1
10°-20°	181.5	11.4
20°-30°	265.3	16.7
30°-40°	301.1	19.0
40°-50°	290.7	18.3
50°-60°	239.8	15.1
60°-70°	159.7	10.1
70°-80°	71.5	4.5
80°-90°	12.8	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°	511.4	32.2
0°-40°	812.6	51.2
0°-60°	1343.1	84.6
0°-90°	1587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	686	685	683	679	677	65
15°	646	648	646	643	639	182
25°	574	578	581	577	572	263
35°	461	468	489	492	490	289
45°	357	363	375	392	394	276
55°	250	254	267	282	290	223
65°	147	151	160	171	181	145
75°	59	62	66	70	74	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.3	686.3	686.3	686.3	686.3
2.5°	688.2	688.4	686.9	682.6	680.0
5°	685.5	685.3	682.6	679.0	676.8
7.5°	677.9	678.4	677.6	672.4	669.5
10°	670.5	670.8	668.7	664.5	661.0
12.5°	661.0	660.8	657.9	655.8	650.2
15°	646.0	647.6	646.0	643.1	638.6
17.5°	631.5	631.5	632.5	627.5	624.1
20°	615.1	615.9	615.9	612.0	608.0
22.5°	596.2	598.5	599.3	595.1	590.4
25°	573.7	578.2	580.9	576.6	571.6
27.5°	546.6	553.4	561.4	558.2	552.7
30°	516.3	526.3	539.5	536.8	532.9
32.5°	487.5	497.5	515.7	514.7	512.6
35°	461.4	467.8	489.1	491.7	489.9
37.5°	436.6	442.4	462.5	468.5	467.0
40°	410.5	416.9	432.7	443.5	444.0
42.5°	384.7	390.8	403.7	419.2	419.2
45°	357.3	363.3	375.2	392.3	394.5
47.5°	330.4	336.7	348.3	365.4	368.9
50°	304.0	309.8	321.4	338.0	343.3
52.5°	276.6	282.9	294.3	309.6	317.2
55°	250.2	254.4	266.8	281.6	289.8
57.5°	222.8	226.8	240.7	253.4	261.8
60°	196.4	201.4	212.3	225.2	234.9
62.5°	171.1	176.4	185.6	197.0	208.0
65°	146.6	150.6	159.5	170.9	180.6
67.5°	122.9	126.3	135.3	143.2	153.5
70°	98.9	103.4	110.0	117.6	124.2
72.5°	79.6	81.5	87.0	92.5	99.4
75°	58.8	62.0	66.4	69.6	73.6
77.5°	42.2	44.0	46.7	49.3	53.0
80°	28.2	29.0	31.4	31.9	34.8
82.5°	17.1	17.7	18.2	18.5	19.5
85°	9.2	9.2	9.2	8.7	8.7
87.5°	5.3	5.3	4.5	3.7	2.6
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)