

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: P554435

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-81-85-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: P554435
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-35-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

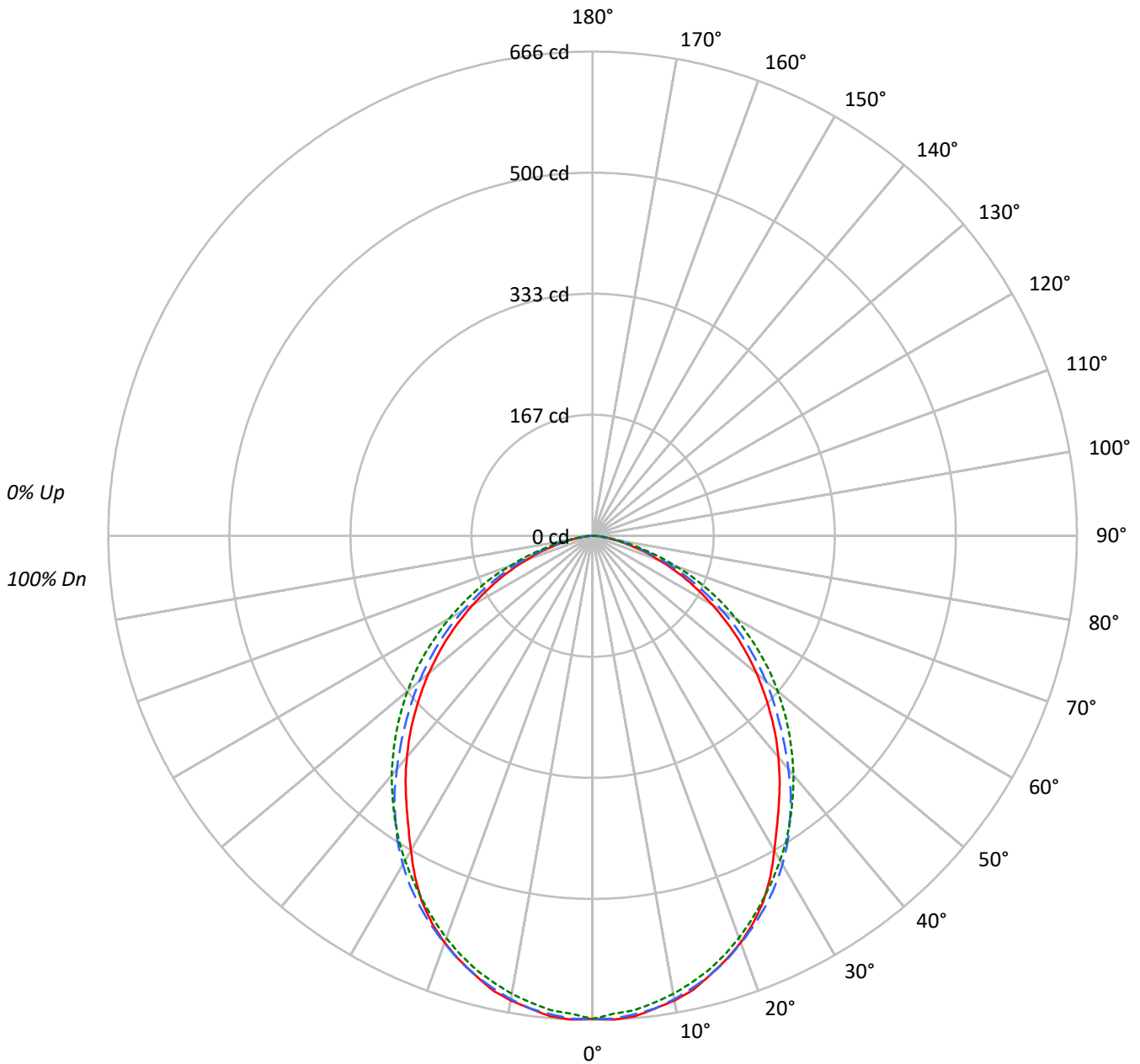
Lumens per Lamp: N/A
Luminaire Lumens: 1536.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3575	3575	3575
5°	3585	3569	3539
10°	3547	3537	3496
15°	3483	3483	3444
20°	3410	3414	3371
25°	3298	3339	3286
30°	3105	3245	3205
35°	2934	3110	3116
40°	2791	2942	3020
45°	2632	2764	2906
50°	2463	2605	2782
55°	2273	2424	2632
60°	2046	2211	2448
65°	1807	1966	2226
70°	1506	1674	1891
75°	1183	1337	1481
80°	846	942	1044
85°	550	550	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	4.1
10°-20°	175.7	11.4
20°-30°	256.8	16.7
30°-40°	291.5	19.0
40°-50°	281.4	18.3
50°-60°	232.1	15.1
60°-70°	154.6	10.1
70°-80°	69.2	4.5
80°-90°	12.4	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°	495.0	32.2
0°-40°	786.5	51.2
0°-60°	1299.9	84.6
0°-90°	1536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	664	663	661	657	655	63
15°	625	627	625	622	618	176
25°	555	560	562	558	553	254
35°	447	453	473	476	474	280
45°	346	352	363	380	382	267
55°	242	246	258	273	280	216
65°	142	146	154	165	175	141
75°	57	60	64	67	71	62
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.3	664.3	664.3	664.3	664.3
2.5°	666.1	666.3	664.8	660.7	658.2
5°	663.5	663.3	660.7	657.1	655.1
7.5°	656.1	656.6	655.9	650.8	647.9
10°	649.0	649.2	647.2	643.1	639.8
12.5°	639.8	639.5	636.7	634.7	629.3
15°	625.2	626.8	625.2	622.4	618.1
17.5°	611.2	611.2	612.2	607.4	604.1
20°	595.4	596.1	596.1	592.3	588.5
22.5°	577.0	579.3	580.1	576.0	571.4
25°	555.3	559.6	562.2	558.1	553.3
27.5°	529.0	535.7	543.3	540.3	534.9
30°	499.7	509.4	522.1	519.6	515.8
32.5°	471.9	481.6	499.2	498.1	496.1
35°	446.6	452.7	473.4	475.9	474.2
37.5°	422.6	428.2	447.6	453.5	452.0
40°	397.3	403.5	418.8	429.2	429.8
42.5°	372.3	378.2	390.7	405.8	405.8
45°	345.8	351.7	363.1	379.7	381.8
47.5°	319.8	325.9	337.1	353.7	357.0
50°	294.2	299.9	311.1	327.2	332.3
52.5°	267.7	273.8	284.8	299.6	307.0
55°	242.2	246.3	258.3	272.6	280.5
57.5°	215.6	219.5	233.0	245.2	253.4
60°	190.1	195.0	205.4	217.9	227.4
62.5°	165.6	170.7	179.7	190.6	201.4
65°	141.9	145.7	154.4	165.4	174.8
67.5°	118.9	122.2	130.9	138.6	148.5
70°	95.7	100.0	106.4	113.8	120.2
72.5°	77.1	78.9	84.2	89.6	96.2
75°	56.9	60.0	64.3	67.4	71.2
77.5°	40.8	42.6	45.2	47.7	51.3
80°	27.3	28.1	30.4	30.9	33.7
82.5°	16.6	17.1	17.6	17.9	18.9
85°	8.9	8.9	8.9	8.4	8.4
87.5°	5.1	5.1	4.3	3.6	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)