

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: P554415

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-93-97-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: P554415
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-30-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

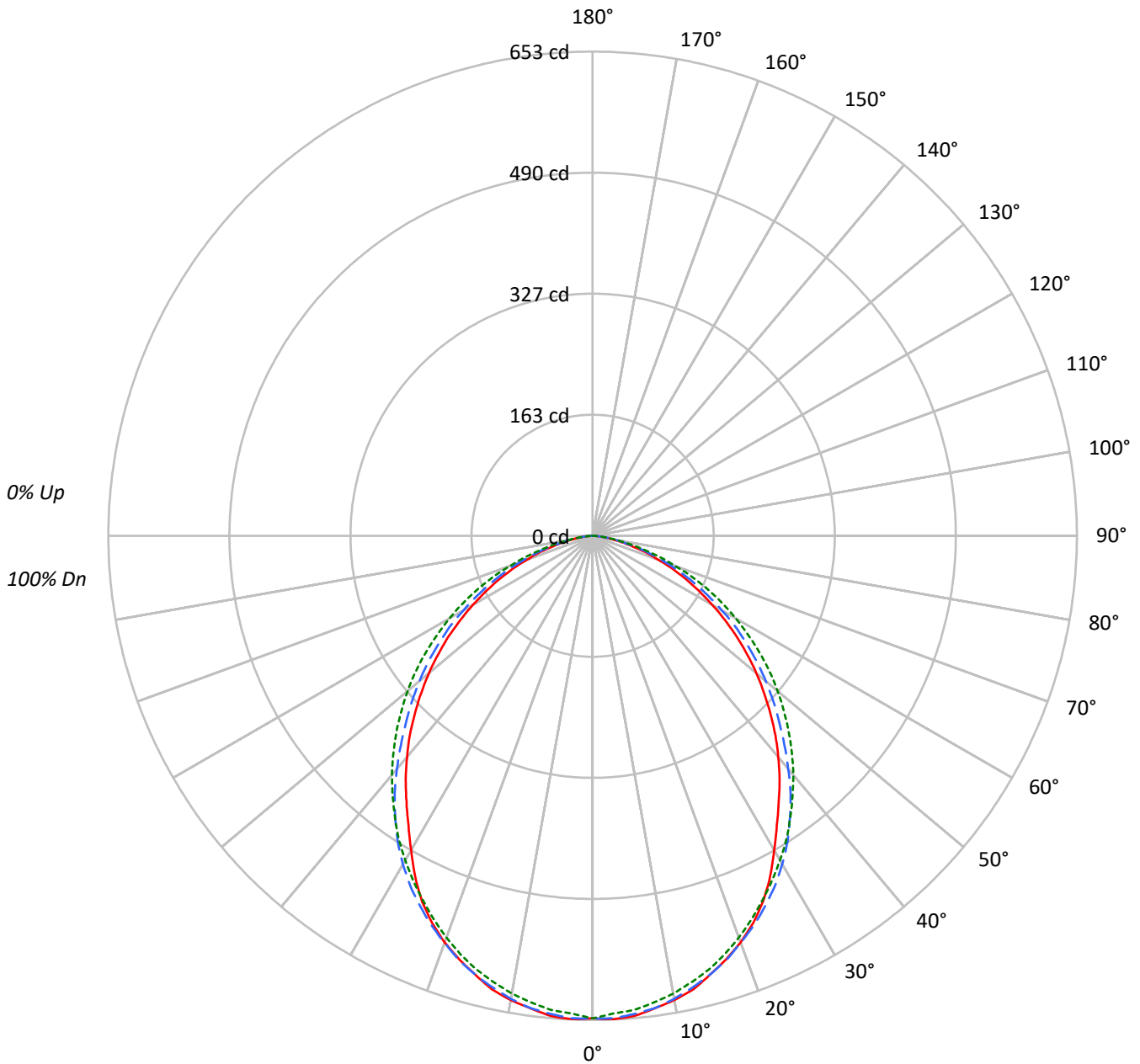
Lumens per Lamp: N/A
Luminaire Lumens: 1505.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3503	3503	3503
5°	3512	3498	3468
10°	3475	3465	3426
15°	3413	3413	3374
20°	3341	3345	3302
25°	3231	3271	3219
30°	3043	3179	3140
35°	2875	3047	3052
40°	2735	2883	2958
45°	2579	2708	2847
50°	2414	2552	2726
55°	2227	2374	2578
60°	2005	2167	2398
65°	1770	1927	2181
70°	1476	1641	1854
75°	1160	1310	1451
80°	831	924	1023
85°	543	543	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	4.1
10°-20°	172.2	11.4
20°-30°	251.6	16.7
30°-40°	285.6	19.0
40°-50°	275.7	18.3
50°-60°	227.4	15.1
60°-70°	151.4	10.1
70°-80°	67.8	4.5
80°-90°	12.2	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°	485.0	32.2
0°-40°	770.6	51.2
0°-60°	1273.7	84.6
0°-90°	1505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	650	650	647	644	642	62
15°	613	614	613	610	606	173
25°	544	548	551	547	542	249
35°	438	444	464	466	465	274
45°	339	345	356	372	374	261
55°	237	241	253	267	275	212
65°	139	143	151	162	171	138
75°	56	59	63	66	70	61
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°	650.9	650.9	650.9	650.9	650.9
2.5°	652.6	652.9	651.4	647.4	644.9
5°	650.1	649.9	647.4	643.9	641.9
7.5°	642.9	643.4	642.6	637.6	634.9
10°	635.9	636.1	634.1	630.1	626.9
12.5°	626.9	626.6	623.9	621.9	616.6
15°	612.6	614.1	612.6	609.9	605.6
17.5°	598.9	598.9	599.9	595.1	591.9
20°	583.4	584.1	584.1	580.4	576.6
22.5°	565.4	567.6	568.4	564.4	559.9
25°	544.1	548.4	550.9	546.9	542.1
27.5°	518.3	524.8	532.4	529.4	524.1
30°	489.6	499.1	511.6	509.1	505.3
32.5°	462.3	471.8	489.1	488.1	486.1
35°	437.6	443.6	463.8	466.3	464.6
37.5°	414.1	419.6	438.6	444.3	442.8
40°	389.3	395.3	410.3	420.6	421.1
42.5°	364.8	370.6	382.8	397.6	397.6
45°	338.8	344.6	355.8	372.1	374.1
47.5°	313.3	319.3	330.3	346.6	349.8
50°	288.3	293.8	304.8	320.6	325.6
52.5°	262.3	268.3	279.1	293.6	300.8
55°	237.3	241.3	253.0	267.1	274.8
57.5°	211.3	215.0	228.3	240.3	248.3
60°	186.3	191.0	201.3	213.5	222.8
62.5°	162.3	167.3	176.0	186.8	197.3
65°	139.0	142.8	151.3	162.0	171.3
67.5°	116.5	119.8	128.3	135.8	145.5
70°	93.8	98.0	104.3	111.5	117.8
72.5°	75.5	77.3	82.5	87.8	94.3
75°	55.8	58.8	63.0	66.0	69.8
77.5°	40.0	41.8	44.3	46.8	50.3
80°	26.8	27.5	29.8	30.3	33.0
82.5°	16.3	16.8	17.3	17.5	18.5
85°	8.8	8.8	8.8	8.3	8.3
87.5°	5.0	5.0	4.3	3.5	2.5
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)