

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: P554379

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-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: P554379
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-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 3000K CCT LEADS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

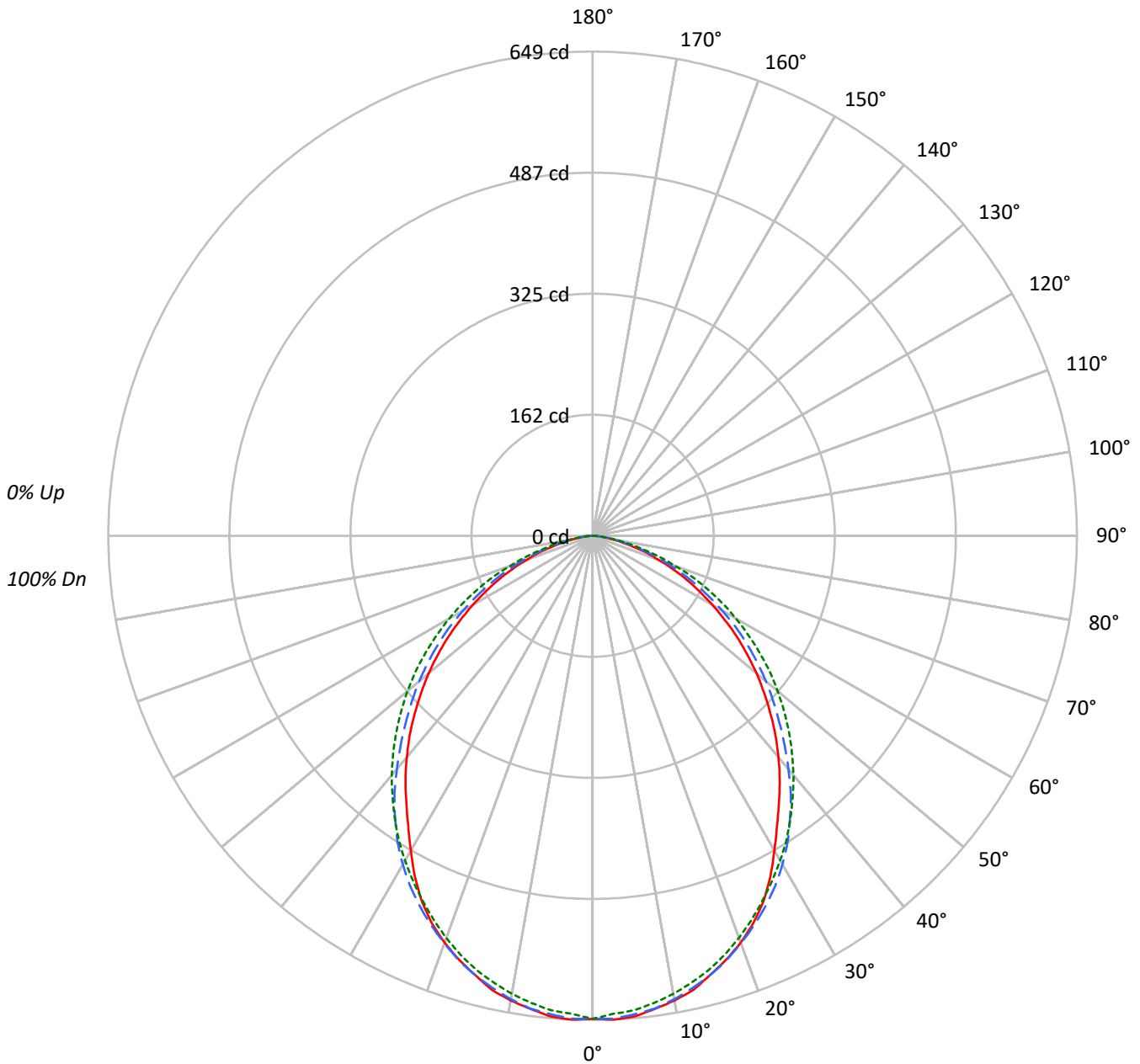
Lumens per Lamp: N/A
Luminaire Lumens: 1497.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3484	3484	3484
5°	3494	3479	3450
10°	3457	3447	3407
15°	3395	3395	3356
20°	3324	3328	3285
25°	3214	3254	3202
30°	3026	3163	3124
35°	2860	3031	3036
40°	2721	2867	2942
45°	2565	2694	2832
50°	2401	2539	2711
55°	2214	2362	2564
60°	1995	2155	2385
65°	1761	1917	2170
70°	1468	1632	1843
75°	1154	1304	1443
80°	824	917	1017
85°	537	537	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	4.1
10°-20°	171.2	11.4
20°-30°	250.2	16.7
30°-40°	284.1	19.0
40°-50°	274.2	18.3
50°-60°	226.2	15.1
60°-70°	150.6	10.1
70°-80°	67.4	4.5
80°-90°	12.1	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°	482.4	32.2
0°-40°	766.5	51.2
0°-60°	1266.9	84.6
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	647	646	644	640	638	61
15°	609	611	609	607	602	172
25°	541	545	548	544	539	248
35°	435	441	461	464	462	273
45°	337	343	354	370	372	260
55°	236	240	252	266	273	211
65°	138	142	150	161	170	137
75°	56	58	63	66	69	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°	647.4	647.4	647.4	647.4	647.4
2.5°	649.2	649.4	647.9	643.9	641.4
5°	646.7	646.4	643.9	640.4	638.5
7.5°	639.5	640.0	639.2	634.2	631.5
10°	632.5	632.7	630.7	626.8	623.5
12.5°	623.5	623.3	620.6	618.6	613.3
15°	609.4	610.9	609.4	606.6	602.4
17.5°	595.7	595.7	596.7	591.9	588.7
20°	580.3	581.0	581.0	577.3	573.5
22.5°	562.4	564.6	565.3	561.4	556.9
25°	541.2	545.4	547.9	543.9	539.2
27.5°	515.6	522.1	529.5	526.5	521.3
30°	487.0	496.4	508.9	506.4	502.7
32.5°	459.9	469.3	486.5	485.5	483.5
35°	435.3	441.2	461.4	463.9	462.1
37.5°	411.9	417.3	436.3	442.0	440.5
40°	387.3	393.2	408.1	418.3	418.8
42.5°	362.9	368.6	380.8	395.5	395.5
45°	337.0	342.7	353.9	370.1	372.1
47.5°	311.6	317.6	328.6	344.7	348.0
50°	286.8	292.2	303.2	318.9	323.8
52.5°	260.9	266.9	277.6	292.0	299.2
55°	236.0	240.0	251.7	265.6	273.3
57.5°	210.2	213.9	227.1	239.0	247.0
60°	185.3	190.0	200.2	212.4	221.6
62.5°	161.4	166.4	175.1	185.8	196.2
65°	138.3	142.0	150.5	161.2	170.4
67.5°	115.9	119.1	127.6	135.1	144.8
70°	93.3	97.5	103.7	110.9	117.1
72.5°	75.1	76.9	82.1	87.3	93.8
75°	55.5	58.4	62.7	65.7	69.4
77.5°	39.8	41.5	44.0	46.5	50.0
80°	26.6	27.4	29.6	30.1	32.8
82.5°	16.2	16.7	17.2	17.4	18.4
85°	8.7	8.7	8.7	8.2	8.2
87.5°	5.0	5.0	4.2	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)