

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: P554463

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-82-97-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: P554463
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-82-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

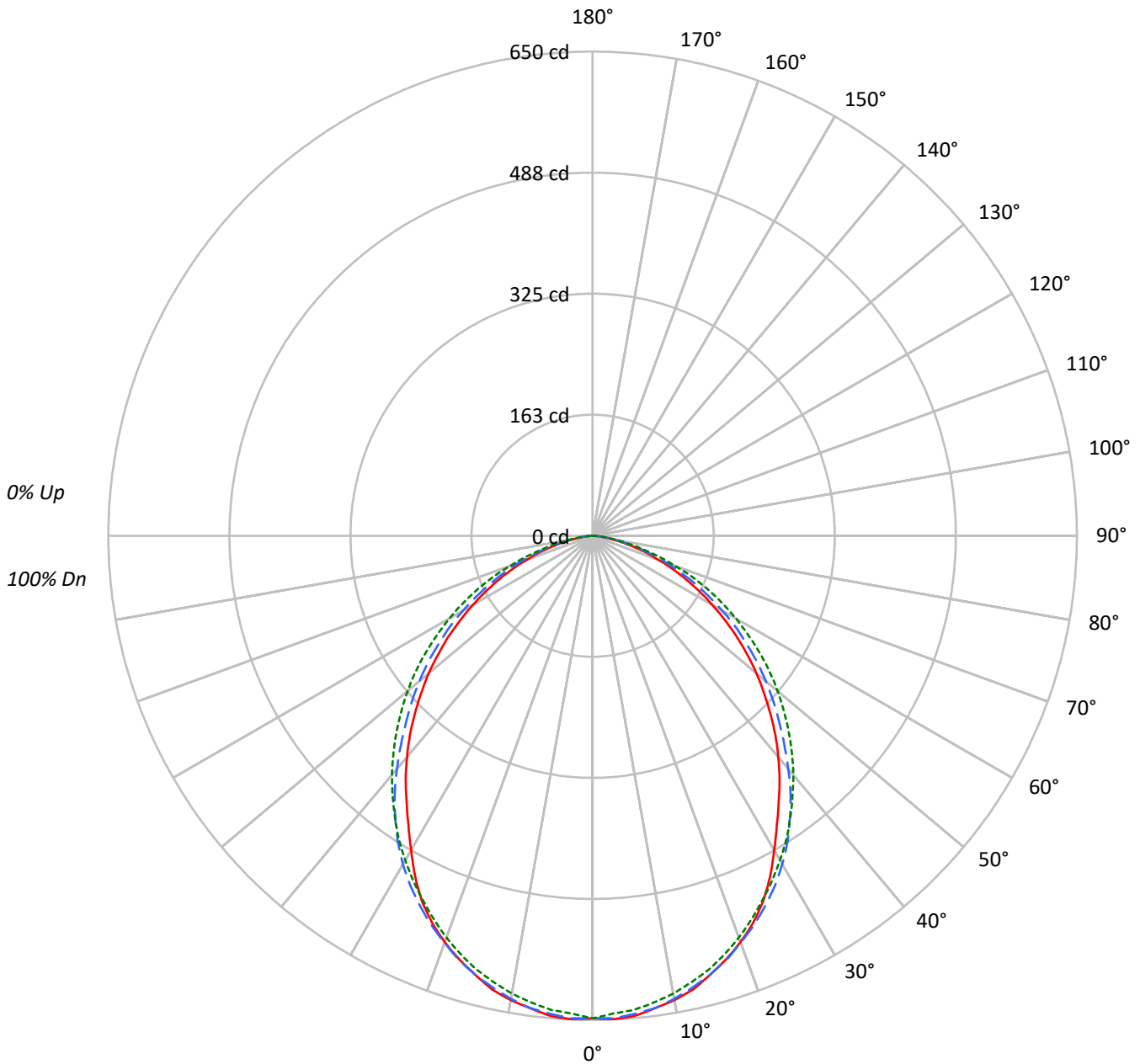
Lumens per Lamp: N/A
Luminaire Lumens: 1498.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3486	3486	3486
5°	3496	3481	3452
10°	3459	3449	3410
15°	3398	3398	3359
20°	3325	3330	3287
25°	3216	3256	3204
30°	3028	3164	3126
35°	2861	3033	3038
40°	2722	2869	2944
45°	2567	2696	2834
50°	2403	2540	2713
55°	2216	2364	2566
60°	1996	2157	2387
65°	1762	1918	2171
70°	1468	1633	1844
75°	1154	1304	1443
80°	824	917	1020
85°	537	537	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	4.1
10°-20°	171.4	11.4
20°-30°	250.4	16.7
30°-40°	284.2	19.0
40°-50°	274.4	18.3
50°-60°	226.4	15.1
60°-70°	150.7	10.1
70°-80°	67.5	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°	482.8	32.2
0°-40°	767.0	51.2
0°-60°	1267.7	84.6
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	647	647	644	641	639	61
15°	610	611	610	607	603	172
25°	542	546	548	544	540	248
35°	436	442	462	464	462	273
45°	337	343	354	370	372	260
55°	236	240	252	266	274	211
65°	138	142	151	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°	647.8	647.8	647.8	647.8	647.8
2.5°	649.6	649.8	648.3	644.4	641.9
5°	647.1	646.9	644.4	640.9	638.9
7.5°	639.9	640.4	639.6	634.7	631.9
10°	632.9	633.2	631.2	627.2	624.0
12.5°	624.0	623.7	621.0	619.0	613.7
15°	609.8	611.3	609.8	607.0	602.8
17.5°	596.1	596.1	597.1	592.3	589.1
20°	580.6	581.4	581.4	577.7	573.9
22.5°	562.7	565.0	565.7	561.7	557.3
25°	541.6	545.8	548.3	544.3	539.6
27.5°	515.9	522.4	529.9	526.9	521.7
30°	487.3	496.8	509.2	506.7	503.0
32.5°	460.2	469.6	486.8	485.8	483.8
35°	435.5	441.5	461.7	464.2	462.4
37.5°	412.2	417.6	436.5	442.3	440.8
40°	387.5	393.5	408.4	418.6	419.1
42.5°	363.1	368.8	381.0	395.7	395.7
45°	337.2	343.0	354.2	370.3	372.3
47.5°	311.9	317.8	328.8	345.0	348.2
50°	287.0	292.4	303.4	319.1	324.0
52.5°	261.1	267.1	277.8	292.2	299.4
55°	236.2	240.2	251.9	265.8	273.5
57.5°	210.3	214.0	227.2	239.2	247.1
60°	185.4	190.1	200.4	212.5	221.8
62.5°	161.5	166.5	175.2	185.9	196.4
65°	138.4	142.1	150.6	161.3	170.5
67.5°	116.0	119.2	127.7	135.1	144.9
70°	93.3	97.6	103.8	111.0	117.2
72.5°	75.2	76.9	82.1	87.4	93.8
75°	55.5	58.5	62.7	65.7	69.4
77.5°	39.8	41.6	44.1	46.5	50.0
80°	26.6	27.4	29.6	30.1	32.9
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)