

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: P554395

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-94-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: P554395
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

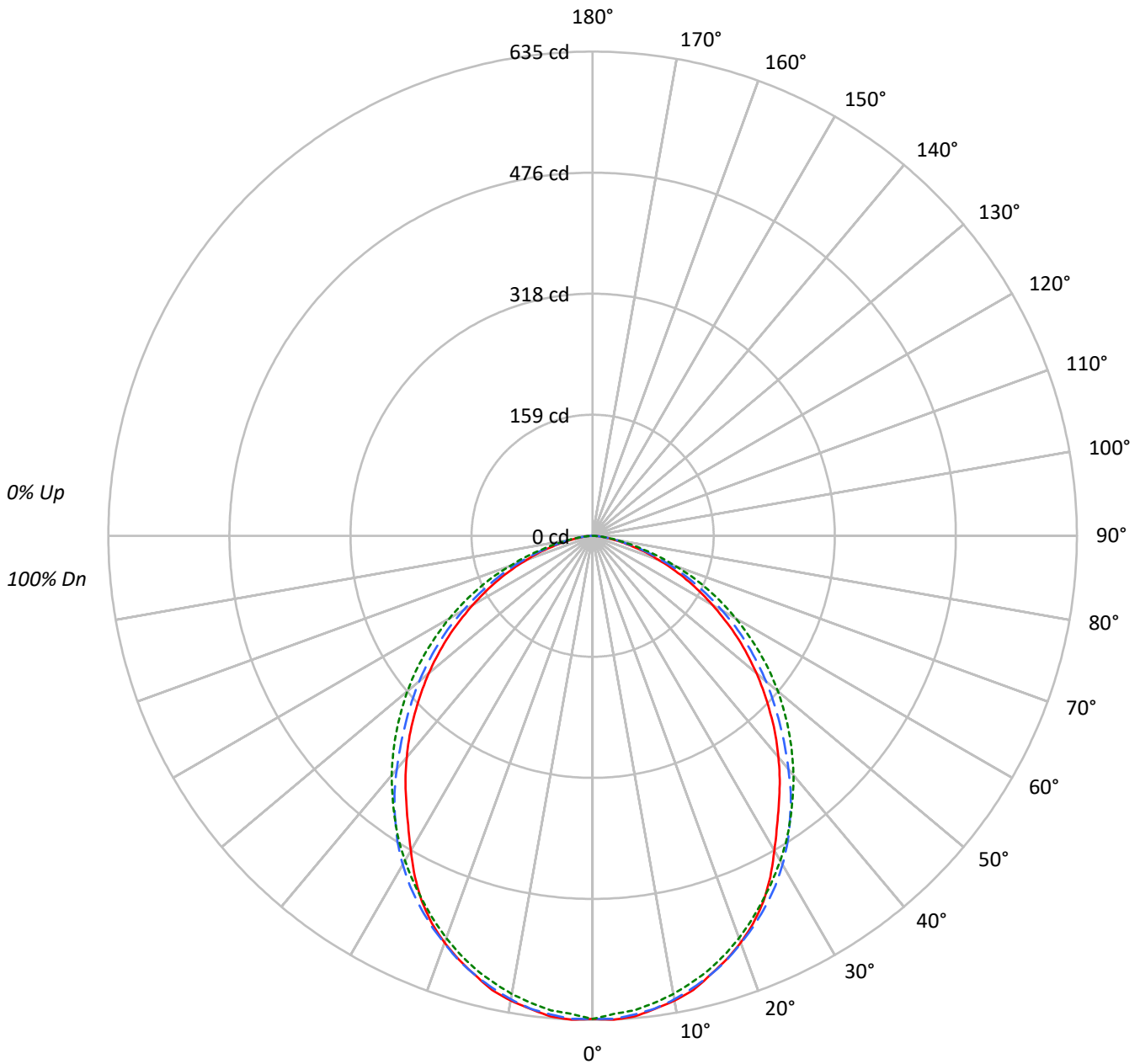
Lumens per Lamp: N/A
Luminaire Lumens: 1465.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554395

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD

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°	3410	3410	3410
5°	3419	3405	3375
10°	3383	3374	3335
15°	3322	3322	3285
20°	3253	3257	3215
25°	3145	3184	3134
30°	2962	3095	3057
35°	2799	2966	2971
40°	2663	2806	2880
45°	2510	2637	2771
50°	2349	2484	2653
55°	2168	2311	2510
60°	1951	2109	2335
65°	1723	1876	2123
70°	1437	1597	1803
75°	1129	1275	1412
80°	806	899	995
85°	525	525	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	4.1
10°-20°	167.6	11.4
20°-30°	244.9	16.7
30°-40°	278.0	19.0
40°-50°	268.3	18.3
50°-60°	221.4	15.1
60°-70°	147.4	10.1
70°-80°	66.0	4.5
80°-90°	11.8	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°	472.1	32.2
0°-40°	750.1	51.2
0°-60°	1239.8	84.6
0°-90°	1465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	633	633	630	627	625	60
15°	596	598	596	594	590	168
25°	530	534	536	532	528	243
35°	426	432	452	454	452	267
45°	330	335	346	362	364	254
55°	231	235	246	260	268	206
65°	135	139	147	158	167	134
75°	54	57	61	64	68	59
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.6	633.6	633.6	633.6	633.6
2.5°	635.3	635.5	634.1	630.2	627.7
5°	632.8	632.6	630.2	626.8	624.8
7.5°	625.8	626.3	625.5	620.7	618.0
10°	619.0	619.2	617.3	613.4	610.2
12.5°	610.2	610.0	607.3	605.3	600.2
15°	596.3	597.8	596.3	593.7	589.5
17.5°	582.9	582.9	583.9	579.3	576.1
20°	567.9	568.6	568.6	564.9	561.3
22.5°	550.3	552.5	553.3	549.4	545.0
25°	529.6	533.8	536.2	532.3	527.7
27.5°	504.6	510.9	518.2	515.3	510.2
30°	476.6	485.8	498.0	495.6	491.9
32.5°	450.0	459.3	476.1	475.1	473.2
35°	426.0	431.8	451.5	453.9	452.2
37.5°	403.1	408.4	426.9	432.5	431.1
40°	379.0	384.8	399.4	409.4	409.9
42.5°	355.1	360.7	372.6	387.0	387.0
45°	329.8	335.4	346.4	362.2	364.1
47.5°	305.0	310.8	321.5	337.4	340.5
50°	280.6	286.0	296.7	312.0	316.9
52.5°	255.3	261.2	271.6	285.8	292.8
55°	231.0	234.9	246.3	260.0	267.5
57.5°	205.7	209.3	222.2	233.9	241.7
60°	181.3	186.0	195.9	207.9	216.9
62.5°	158.0	162.8	171.4	181.8	192.0
65°	135.3	139.0	147.3	157.7	166.7
67.5°	113.4	116.6	124.9	132.2	141.7
70°	91.3	95.4	101.5	108.6	114.6
72.5°	73.5	75.2	80.3	85.4	91.8
75°	54.3	57.2	61.3	64.3	67.9
77.5°	38.9	40.6	43.1	45.5	48.9
80°	26.0	26.8	29.0	29.5	32.1
82.5°	15.8	16.3	16.8	17.0	18.0
85°	8.5	8.5	8.5	8.0	8.0
87.5°	4.9	4.9	4.1	3.4	2.4
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)