

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: P555116

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-96-EDD-90**

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: P555116
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-LD4-2LO-50-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

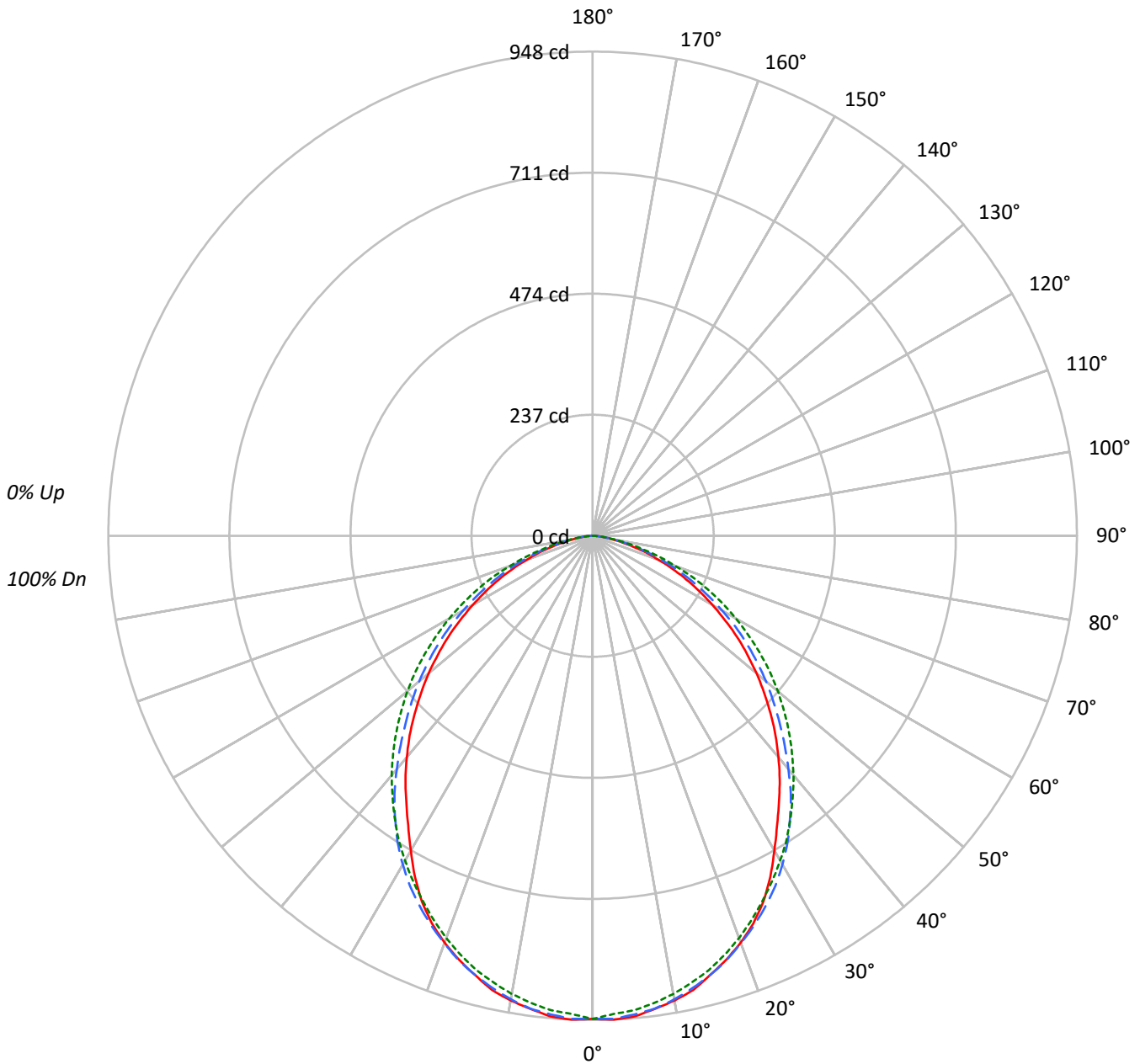
Lumens per Lamp: N/A
Luminaire Lumens: 2187.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5090	5090	5090
5°	5104	5082	5039
10°	5050	5036	4978
15°	4960	4960	4904
20°	4855	4861	4799
25°	4695	4754	4678
30°	4422	4620	4563
35°	4178	4428	4436
40°	3974	4189	4299
45°	3748	3936	4137
50°	3508	3708	3961
55°	3235	3450	3747
60°	2914	3148	3485
65°	2572	2799	3170
70°	2145	2384	2692
75°	1684	1905	2109
80°	1206	1339	1488
85°	784	784	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	4.1
10°-20°	250.2	11.4
20°-30°	365.6	16.7
30°-40°	415.0	19.0
40°-50°	400.6	18.3
50°-60°	330.5	15.1
60°-70°	220.1	10.1
70°-80°	98.5	4.5
80°-90°	17.6	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°	704.8	32.2
0°-40°	1119.8	51.2
0°-60°	1850.8	84.6
0°-90°	2187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	945	944	941	936	933	89
15°	890	892	890	886	880	251
25°	791	797	800	795	788	362
35°	636	645	674	678	675	398
45°	492	501	517	541	544	380
55°	345	351	368	388	399	308
65°	202	208	220	236	249	200
75°	81	85	92	96	101	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.8	945.8	945.8	945.8	945.8
2.5°	948.4	948.7	946.5	940.7	937.1
5°	944.7	944.4	940.7	935.6	932.7
7.5°	934.2	934.9	933.8	926.6	922.6
10°	924.0	924.4	921.5	915.7	910.9
12.5°	910.9	910.6	906.6	903.7	896.0
15°	890.2	892.4	890.2	886.2	880.1
17.5°	870.2	870.2	871.7	864.8	860.1
20°	847.7	848.8	848.8	843.4	837.9
22.5°	821.6	824.8	825.9	820.1	813.6
25°	790.7	796.8	800.5	794.7	787.8
27.5°	753.2	762.7	773.6	769.2	761.6
30°	711.5	725.3	743.4	739.8	734.3
32.5°	671.8	685.7	710.7	709.3	706.4
35°	635.9	644.6	674.0	677.7	675.1
37.5°	601.7	609.7	637.3	645.7	643.5
40°	565.7	574.5	596.3	611.2	611.9
42.5°	530.1	538.5	556.3	577.7	577.7
45°	492.4	500.7	517.1	540.7	543.6
47.5°	455.3	464.0	480.0	503.6	508.3
50°	419.0	426.9	442.9	465.8	473.1
52.5°	381.2	389.9	405.5	426.6	437.1
55°	344.8	350.6	367.7	388.1	399.3
57.5°	307.0	312.5	331.7	349.2	360.8
60°	270.7	277.6	292.5	310.3	323.8
62.5°	235.8	243.1	255.8	271.4	286.7
65°	202.0	207.5	219.8	235.5	248.9
67.5°	169.3	174.0	186.4	197.3	211.5
70°	136.3	142.4	151.5	162.1	171.1
72.5°	109.7	112.3	119.9	127.5	137.0
75°	81.0	85.4	91.6	95.9	101.4
77.5°	58.1	60.7	64.3	67.9	73.0
80°	38.9	40.0	43.2	44.0	48.0
82.5°	23.6	24.3	25.1	25.4	26.9
85°	12.7	12.7	12.7	12.0	12.0
87.5°	7.3	7.3	6.2	5.1	3.6
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)