

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: P554913

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-84-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: P554913
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-30-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

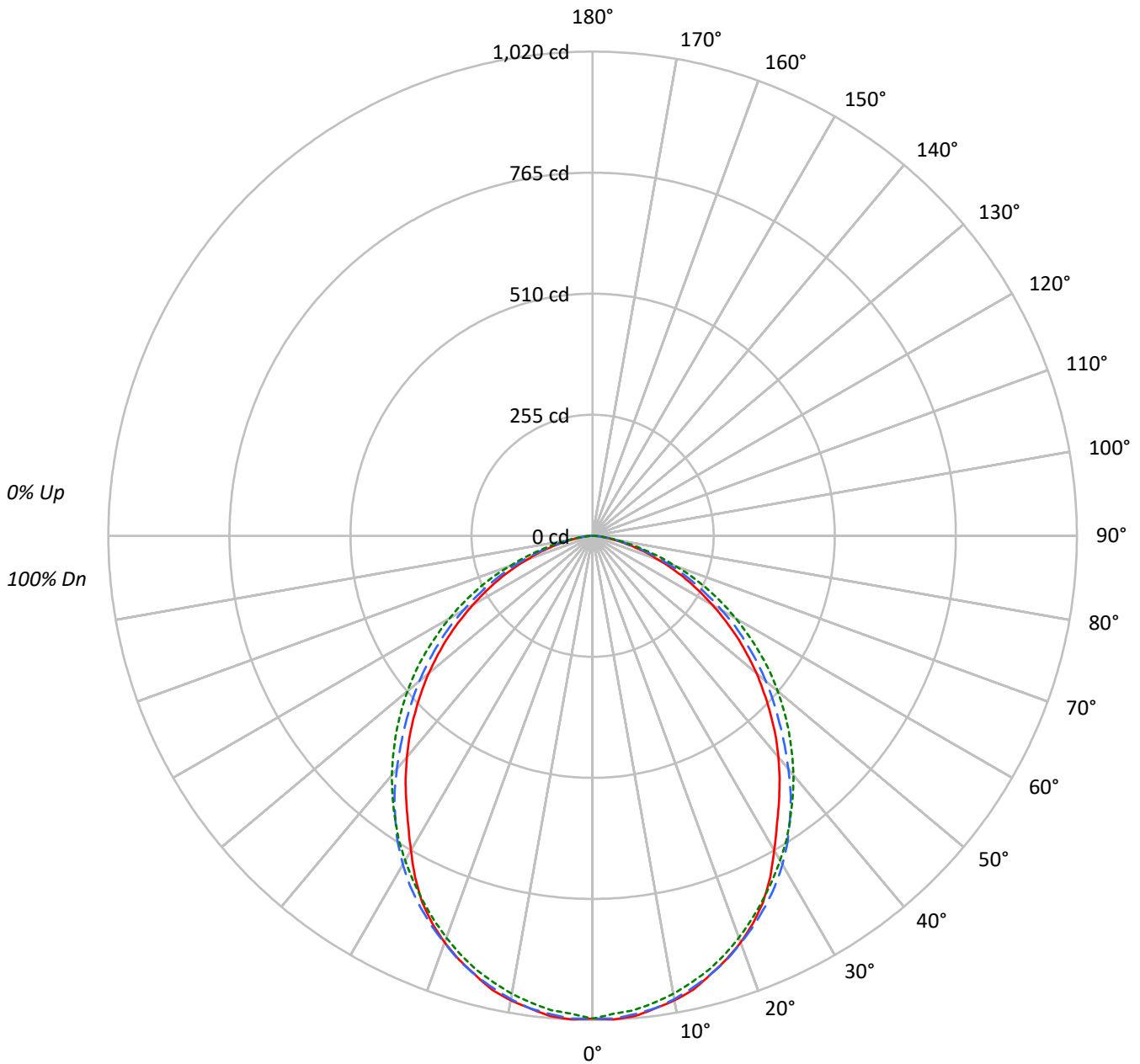
Lumens per Lamp: N/A
Luminaire Lumens: 2352.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5475	5475	5475
5°	5489	5466	5419
10°	5431	5416	5354
15°	5334	5334	5273
20°	5222	5228	5161
25°	5049	5112	5031
30°	4755	4969	4908
35°	4493	4763	4771
40°	4274	4506	4624
45°	4030	4233	4450
50°	3773	3989	4260
55°	3479	3711	4030
60°	3133	3386	3748
65°	2767	3011	3409
70°	2305	2565	2897
75°	1811	2048	2267
80°	1296	1441	1599
85°	846	846	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	4.1
10°-20°	269.0	11.4
20°-30°	393.2	16.7
30°-40°	446.3	19.0
40°-50°	430.8	18.3
50°-60°	355.4	15.1
60°-70°	236.7	10.1
70°-80°	105.9	4.5
80°-90°	19.0	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°	758.0	32.2
0°-40°	1204.3	51.2
0°-60°	1990.5	84.6
0°-90°	2352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1016	1016	1012	1006	1003	96
15°	957	960	957	953	946	270
25°	850	857	861	855	847	389
35°	684	693	725	729	726	428
45°	530	538	556	582	585	409
55°	371	377	396	417	430	331
65°	217	223	236	253	268	215
75°	87	92	98	103	109	95
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1019.9	1020.3	1018.0	1011.7	1007.8
5°	1016.0	1015.6	1011.7	1006.2	1003.1
7.5°	1004.7	1005.5	1004.3	996.5	992.2
10°	993.7	994.1	991.0	984.7	979.7
12.5°	979.7	979.3	975.0	971.8	963.6
15°	957.4	959.7	957.4	953.1	946.4
17.5°	935.9	935.9	937.5	930.0	925.0
20°	911.7	912.8	912.8	907.0	901.1
22.5°	883.5	887.1	888.2	882.0	874.9
25°	850.3	857.0	860.9	854.6	847.2
27.5°	810.1	820.2	832.0	827.3	819.1
30°	765.1	780.0	799.5	795.6	789.8
32.5°	722.5	737.4	764.3	762.8	759.7
35°	683.9	693.2	724.9	728.8	726.1
37.5°	647.1	655.7	685.4	694.4	692.1
40°	608.4	617.8	641.3	657.3	658.1
42.5°	570.1	579.1	598.3	621.3	621.3
45°	529.5	538.5	556.1	581.5	584.6
47.5°	489.6	499.0	516.2	541.6	546.7
50°	450.6	459.2	476.4	501.0	508.8
52.5°	409.9	419.3	436.1	458.8	470.1
55°	370.8	377.1	395.5	417.3	429.5
57.5°	330.2	336.1	356.8	375.5	388.0
60°	291.1	298.5	314.6	333.7	348.2
62.5°	253.6	261.4	275.1	291.9	308.3
65°	217.3	223.1	236.4	253.2	267.7
67.5°	182.1	187.2	200.5	212.2	227.4
70°	146.5	153.2	163.0	174.3	184.1
72.5°	118.0	120.7	129.0	137.2	147.3
75°	87.1	91.8	98.5	103.2	109.0
77.5°	62.5	65.3	69.2	73.1	78.5
80°	41.8	43.0	46.5	47.3	51.6
82.5°	25.4	26.2	27.0	27.4	28.9
85°	13.7	13.7	13.7	12.9	12.9
87.5°	7.8	7.8	6.6	5.5	3.9
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)