

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: P554907

Luminaire Tested: **FUSL-12-2-LD4-2LO-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: P554907
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-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 LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

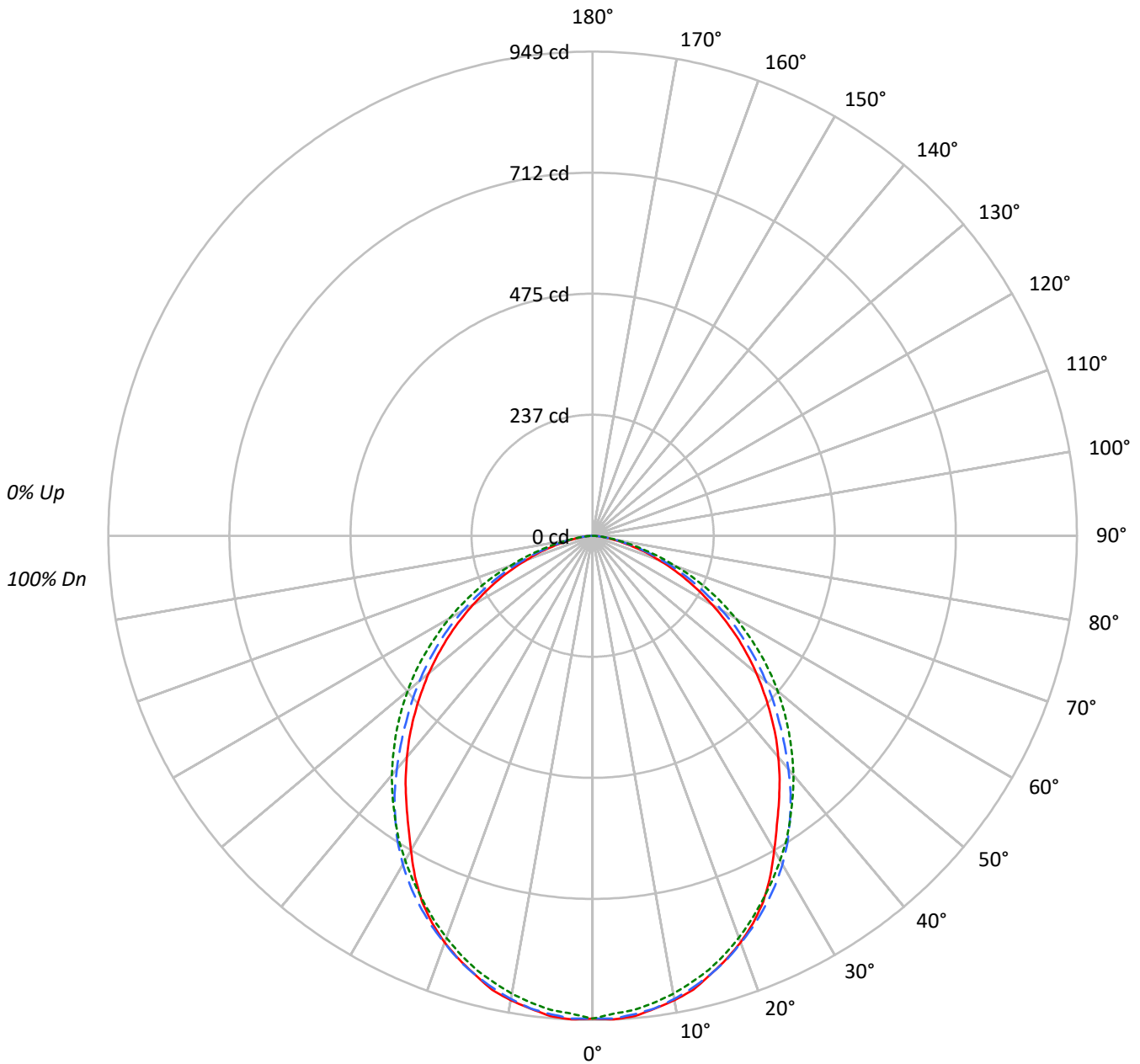
Lumens per Lamp: N/A
Luminaire Lumens: 2188.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5093	5093	5093
5°	5106	5085	5042
10°	5052	5038	4981
15°	4962	4962	4906
20°	4857	4864	4801
25°	4697	4755	4680
30°	4424	4622	4566
35°	4180	4430	4437
40°	3977	4191	4301
45°	3749	3937	4139
50°	3509	3710	3963
55°	3237	3452	3749
60°	2915	3150	3486
65°	2574	2800	3171
70°	2145	2386	2694
75°	1686	1905	2109
80°	1206	1342	1488
85°	784	784	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	4.1
10°-20°	250.3	11.4
20°-30°	365.7	16.7
30°-40°	415.2	19.0
40°-50°	400.8	18.3
50°-60°	330.6	15.1
60°-70°	220.2	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°	705.1	32.2
0°-40°	1120.3	51.2
0°-60°	1851.7	84.6
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	945	945	941	936	933	89
15°	891	893	891	887	880	251
25°	791	797	801	795	788	362
35°	636	645	674	678	675	399
45°	493	501	517	541	544	380
55°	345	351	368	388	400	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°	946.3	946.3	946.3	946.3	946.3
2.5°	948.8	949.2	947.0	941.2	937.5
5°	945.2	944.8	941.2	936.1	933.2
7.5°	934.6	935.3	934.3	927.0	923.0
10°	924.4	924.8	921.9	916.1	911.4
12.5°	911.4	911.0	907.0	904.1	896.5
15°	890.6	892.8	890.6	886.6	880.5
17.5°	870.6	870.6	872.1	865.2	860.5
20°	848.1	849.2	849.2	843.7	838.3
22.5°	821.9	825.2	826.3	820.5	813.9
25°	791.0	797.2	800.8	795.0	788.1
27.5°	753.6	763.0	773.9	769.6	761.9
30°	711.8	725.6	743.8	740.1	734.7
32.5°	672.2	686.0	711.1	709.6	706.7
35°	636.2	644.9	674.3	678.0	675.4
37.5°	602.0	610.0	637.6	646.0	643.8
40°	566.0	574.7	596.5	611.4	612.2
42.5°	530.4	538.7	556.6	578.0	578.0
45°	492.6	500.9	517.3	540.9	543.8
47.5°	455.5	464.2	480.2	503.8	508.6
50°	419.1	427.1	443.1	466.0	473.3
52.5°	381.3	390.1	405.7	426.8	437.3
55°	345.0	350.8	367.9	388.2	399.5
57.5°	307.2	312.6	331.9	349.3	361.0
60°	270.8	277.7	292.6	310.4	323.9
62.5°	235.9	243.2	255.9	271.6	286.8
65°	202.1	207.6	219.9	235.6	249.0
67.5°	169.4	174.1	186.5	197.4	211.6
70°	136.3	142.5	151.6	162.1	171.2
72.5°	109.8	112.3	120.0	127.6	137.0
75°	81.1	85.4	91.6	96.0	101.4
77.5°	58.2	60.7	64.3	68.0	73.1
80°	38.9	40.0	43.3	44.0	48.0
82.5°	23.6	24.4	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)