

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: P554059

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-81-94-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: P554059
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-LD4-1HI-50-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

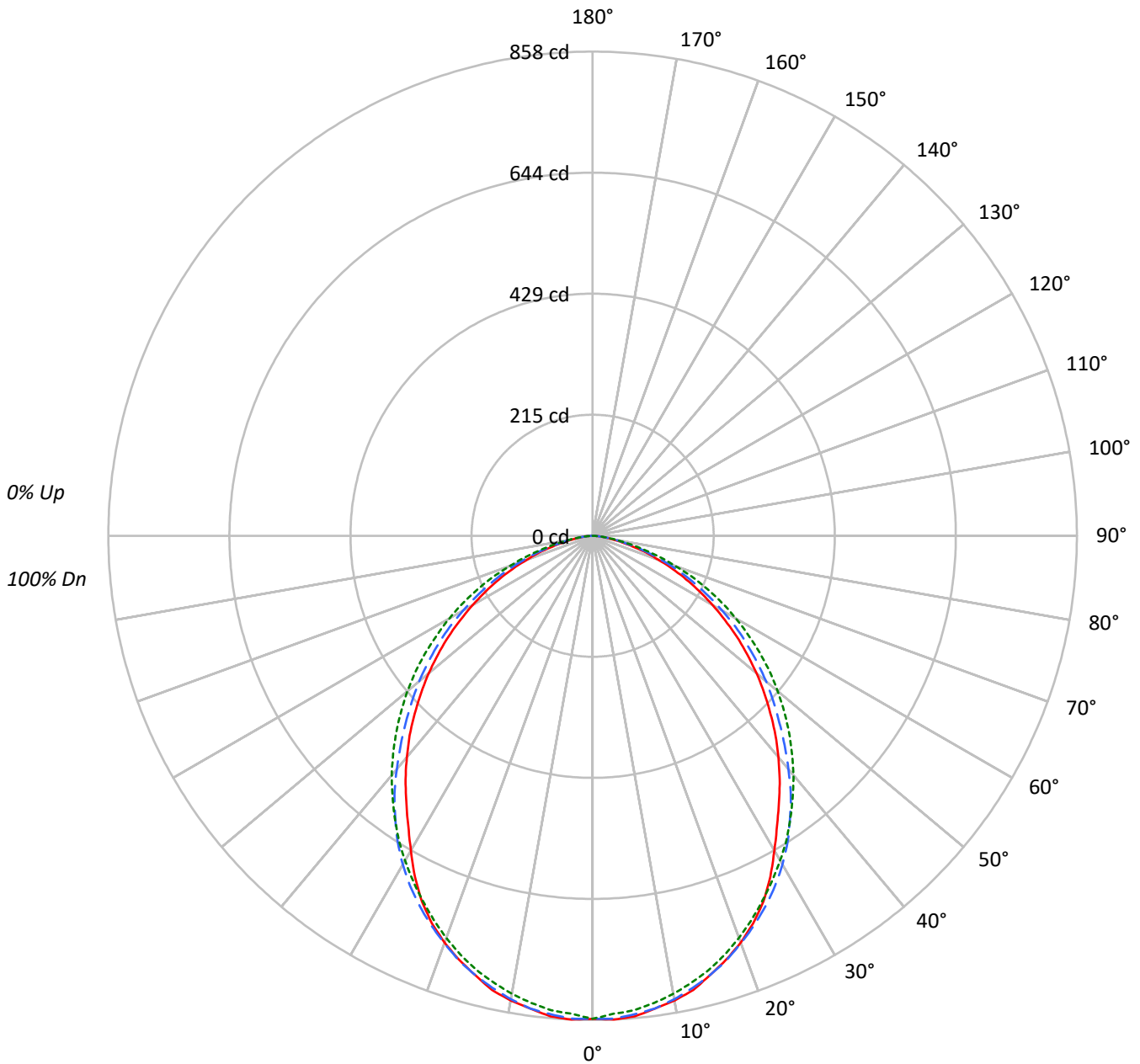
Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P554059

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554059

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-94-EDD

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°	4606	4606	4606
5°	4619	4599	4560
10°	4569	4557	4505
15°	4489	4489	4437
20°	4393	4399	4342
25°	4249	4301	4233
30°	4001	4181	4130
35°	3780	4007	4014
40°	3596	3791	3890
45°	3391	3561	3744
50°	3174	3356	3584
55°	2928	3122	3391
60°	2637	2849	3154
65°	2328	2533	2868
70°	1940	2157	2437
75°	1524	1724	1907
80°	1091	1212	1345
85°	710	710	673



TEST NUMBER: P554059

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	4.1
10°-20°	226.4	11.4
20°-30°	330.8	16.7
30°-40°	375.5	19.0
40°-50°	362.5	18.3
50°-60°	299.0	15.1
60°-70°	199.1	10.1
70°-80°	89.1	4.5
80°-90°	15.9	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°	637.8	32.2
0°-40°	1013.3	51.2
0°-60°	1674.8	84.6
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	855	855	851	847	844	81
15°	806	808	806	802	796	227
25°	716	721	724	719	713	328
35°	575	583	610	613	611	361
45°	446	453	468	489	492	344
55°	312	317	333	351	361	278
65°	183	188	199	213	225	181
75°	73	77	83	87	92	80
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P554059

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.9	855.9	855.9	855.9	855.9
2.5°	858.2	858.5	856.5	851.3	848.0
5°	854.9	854.6	851.3	846.7	844.0
7.5°	845.3	846.0	845.0	838.4	834.8
10°	836.1	836.5	833.8	828.6	824.3
12.5°	824.3	824.0	820.4	817.7	810.8
15°	805.6	807.5	805.6	801.9	796.4
17.5°	787.5	787.5	788.8	782.5	778.3
20°	767.1	768.1	768.1	763.1	758.2
22.5°	743.4	746.4	747.4	742.1	736.2
25°	715.5	721.1	724.3	719.1	712.8
27.5°	681.6	690.2	700.0	696.1	689.2
30°	643.8	656.3	672.7	669.4	664.5
32.5°	608.0	620.4	643.1	641.8	639.2
35°	575.4	583.3	609.9	613.2	610.9
37.5°	544.5	551.7	576.7	584.3	582.3
40°	511.9	519.8	539.6	553.0	553.7
42.5°	479.7	487.3	503.4	522.8	522.8
45°	445.5	453.1	467.9	489.3	491.9
47.5°	412.0	419.9	434.3	455.7	460.0
50°	379.1	386.3	400.8	421.5	428.1
52.5°	344.9	352.8	366.9	386.0	395.5
55°	312.0	317.3	332.7	351.2	361.4
57.5°	277.8	282.8	300.2	316.0	326.5
60°	245.0	251.2	264.7	280.8	293.0
62.5°	213.4	220.0	231.5	245.6	259.4
65°	182.8	187.7	198.9	213.1	225.2
67.5°	153.2	157.5	168.7	178.5	191.4
70°	123.3	128.9	137.1	146.6	154.9
72.5°	99.3	101.6	108.5	115.4	124.0
75°	73.3	77.3	82.9	86.8	91.7
77.5°	52.6	54.9	58.2	61.5	66.1
80°	35.2	36.2	39.1	39.8	43.4
82.5°	21.4	22.0	22.7	23.0	24.3
85°	11.5	11.5	11.5	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)