

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: P554035

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-85-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: P554035
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

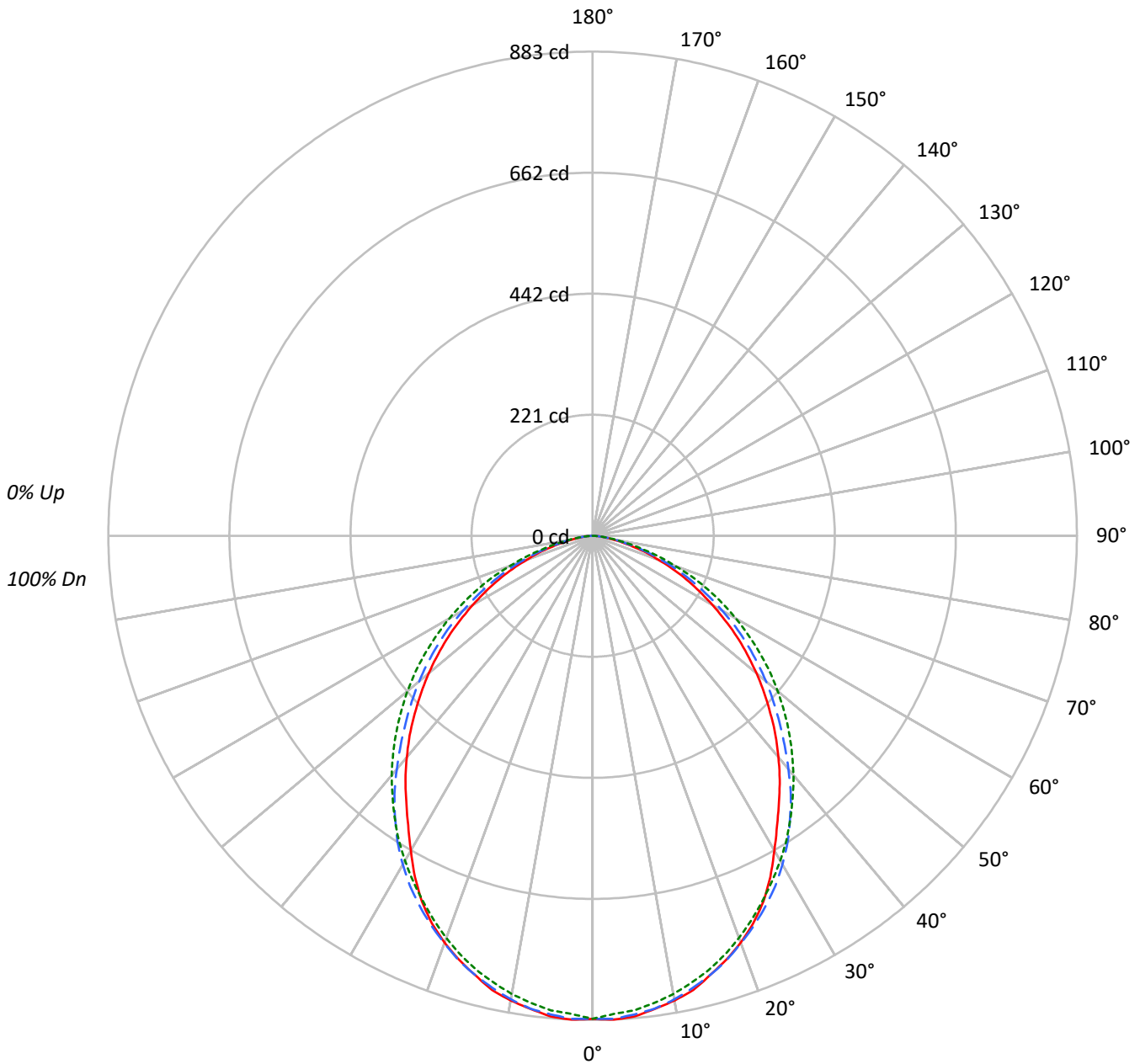
Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554035

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-80-85-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°	4741	4741	4741
5°	4754	4734	4694
10°	4703	4691	4637
15°	4620	4620	4567
20°	4522	4528	4470
25°	4373	4428	4357
30°	4118	4303	4251
35°	3892	4125	4131
40°	3702	3902	4004
45°	3491	3666	3854
50°	3267	3455	3689
55°	3014	3214	3490
60°	2714	2932	3245
65°	2397	2608	2952
70°	1997	2220	2508
75°	1570	1774	1963
80°	1122	1249	1385
85°	729	729	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	4.1
10°-20°	233.0	11.4
20°-30°	340.5	16.7
30°-40°	386.5	19.0
40°-50°	373.1	18.3
50°-60°	307.8	15.1
60°-70°	205.0	10.1
70°-80°	91.7	4.5
80°-90°	16.4	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°	656.5	32.2
0°-40°	1043.0	51.2
0°-60°	1723.9	84.6
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	880	880	876	872	869	83
15°	829	831	829	825	820	234
25°	736	742	746	740	734	337
35°	592	600	628	631	629	371
45°	459	466	482	504	506	354
55°	321	327	342	362	372	287
65°	188	193	205	219	232	187
75°	76	80	85	89	94	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.9	880.9	880.9	880.9	880.9
2.5°	883.3	883.7	881.6	876.2	872.8
5°	879.9	879.6	876.2	871.5	868.8
7.5°	870.1	870.8	869.8	863.0	859.3
10°	860.6	861.0	858.3	852.9	848.5
12.5°	848.5	848.1	844.4	841.7	834.6
15°	829.2	831.2	829.2	825.4	819.7
17.5°	810.6	810.6	811.9	805.5	801.1
20°	789.6	790.6	790.6	785.5	780.4
22.5°	765.2	768.3	769.3	763.9	757.8
25°	736.4	742.2	745.6	740.2	733.7
27.5°	701.6	710.4	720.5	716.5	709.4
30°	662.7	675.5	692.4	689.1	684.0
32.5°	625.8	638.6	662.0	660.6	657.9
35°	592.3	600.4	627.8	631.2	628.8
37.5°	560.5	567.9	593.6	601.4	599.4
40°	526.9	535.1	555.4	569.2	569.9
42.5°	493.8	501.6	518.1	538.1	538.1
45°	458.6	466.4	481.6	503.6	506.3
47.5°	424.1	432.2	447.1	469.1	473.5
50°	390.2	397.7	412.6	433.9	440.6
52.5°	355.0	363.1	377.7	397.3	407.1
55°	321.2	326.6	342.5	361.5	371.9
57.5°	286.0	291.1	309.0	325.2	336.1
60°	252.1	258.6	272.4	289.0	301.5
62.5°	219.6	226.4	238.3	252.8	267.0
65°	188.2	193.2	204.8	219.3	231.8
67.5°	157.7	162.1	173.6	183.8	197.0
70°	126.9	132.7	141.1	150.9	159.4
72.5°	102.2	104.6	111.7	118.8	127.6
75°	75.5	79.5	85.3	89.3	94.4
77.5°	54.1	56.5	59.9	63.3	68.0
80°	36.2	37.2	40.3	41.0	44.7
82.5°	22.0	22.7	23.4	23.7	25.0
85°	11.8	11.8	11.8	11.2	11.2
87.5°	6.8	6.8	5.8	4.7	3.4
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)