

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: P553970

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-80-85-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: P553970
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-40-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

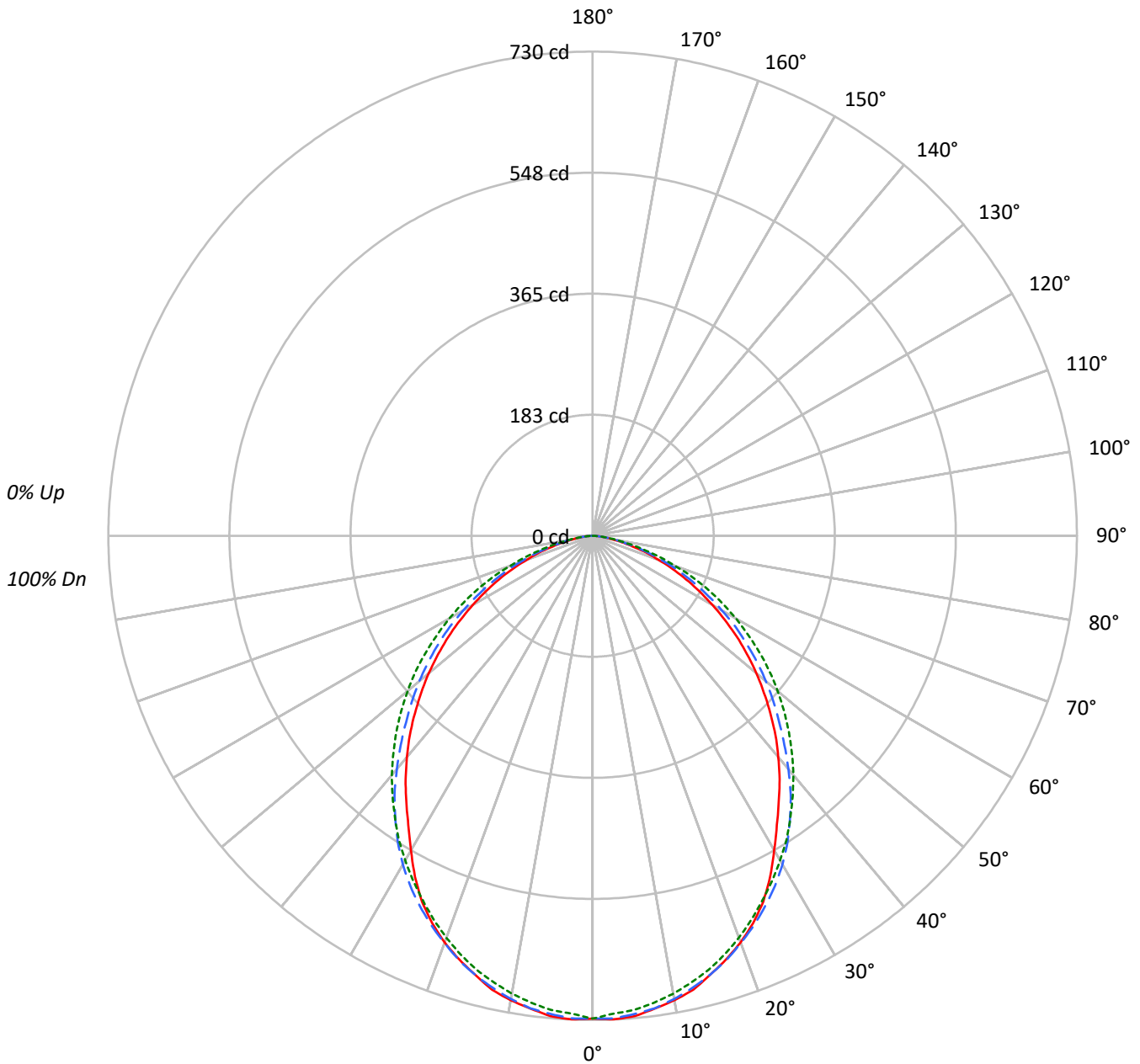
Lumens per Lamp: N/A
Luminaire Lumens: 1683.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3918	3918	3918
5°	3928	3911	3878
10°	3886	3875	3831
15°	3817	3817	3773
20°	3737	3741	3693
25°	3613	3658	3600
30°	3402	3555	3512
35°	3215	3408	3413
40°	3059	3224	3308
45°	2884	3029	3184
50°	2699	2854	3049
55°	2490	2655	2883
60°	2242	2423	2681
65°	1980	2155	2439
70°	1651	1835	2072
75°	1298	1466	1622
80°	927	1032	1144
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	4.1
10°-20°	192.5	11.4
20°-30°	281.3	16.7
30°-40°	319.3	19.0
40°-50°	308.3	18.3
50°-60°	254.3	15.1
60°-70°	169.3	10.1
70°-80°	75.8	4.5
80°-90°	13.6	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°	542.4	32.2
0°-40°	861.7	51.2
0°-60°	1424.3	84.6
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	727	727	724	720	718	69
15°	685	687	685	682	677	193
25°	608	613	616	612	606	279
35°	489	496	519	522	520	307
45°	379	385	398	416	418	292
55°	265	270	283	299	307	237
65°	156	160	169	181	192	154
75°	62	66	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.9	727.9	727.9	727.9	727.9
2.5°	729.8	730.1	728.4	723.9	721.1
5°	727.0	726.7	723.9	720.0	717.8
7.5°	718.9	719.5	718.6	713.0	710.0
10°	711.1	711.4	709.1	704.6	701.0
12.5°	701.0	700.7	697.7	695.4	689.5
15°	685.1	686.7	685.1	682.0	677.2
17.5°	669.7	669.7	670.8	665.5	661.9
20°	652.4	653.2	653.2	649.0	644.8
22.5°	632.2	634.7	635.6	631.1	626.1
25°	608.5	613.2	616.0	611.5	606.2
27.5°	579.7	586.9	595.3	592.0	586.1
30°	547.5	558.1	572.1	569.3	565.1
32.5°	517.0	527.6	546.9	545.8	543.6
35°	489.3	496.0	518.7	521.5	519.5
37.5°	463.1	469.2	490.5	496.9	495.2
40°	435.4	442.1	458.9	470.3	470.9
42.5°	408.0	414.4	428.1	444.6	444.6
45°	378.9	385.3	397.9	416.1	418.3
47.5°	350.4	357.1	369.4	387.6	391.2
50°	322.4	328.6	340.9	358.5	364.1
52.5°	293.3	300.0	312.1	328.3	336.4
55°	265.4	269.8	283.0	298.6	307.3
57.5°	236.3	240.5	255.3	268.7	277.7
60°	208.3	213.6	225.1	238.8	249.1
62.5°	181.5	187.1	196.9	208.9	220.6
65°	155.5	159.7	169.2	181.2	191.5
67.5°	130.3	133.9	143.4	151.8	162.7
70°	104.9	109.6	116.6	124.7	131.7
72.5°	84.4	86.4	92.3	98.1	105.4
75°	62.4	65.7	70.5	73.8	78.0
77.5°	44.7	46.7	49.5	52.3	56.2
80°	29.9	30.8	33.3	33.8	36.9
82.5°	18.2	18.7	19.3	19.6	20.7
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.8	3.9	2.8
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)