

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: P554046

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-97-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: P554046
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-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

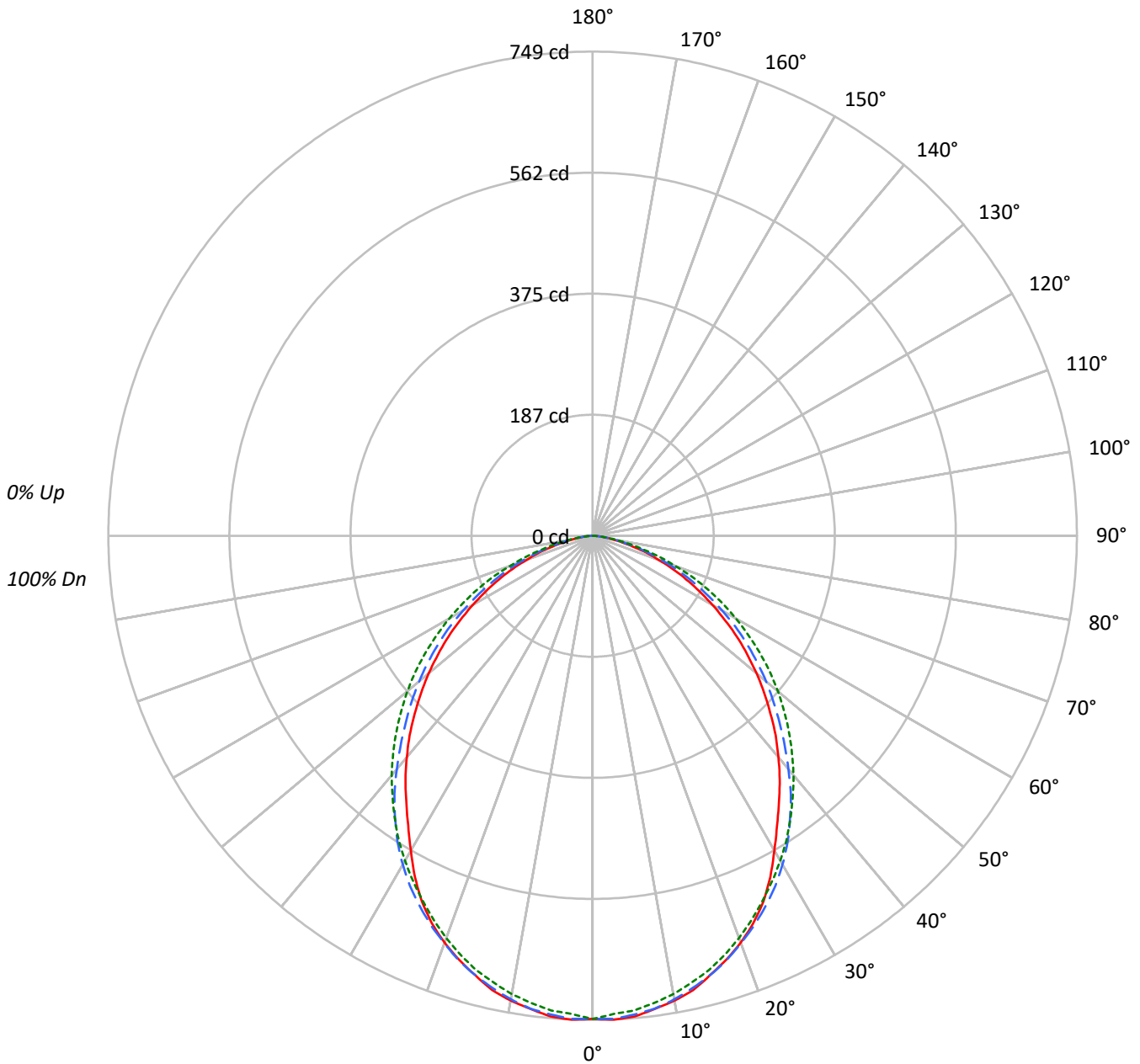
Lumens per Lamp: N/A
Luminaire Lumens: 1728.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	4022	4022	4022
5°	4033	4016	3982
10°	3990	3979	3934
15°	3919	3919	3875
20°	3836	3841	3792
25°	3710	3756	3696
30°	3493	3650	3606
35°	3301	3499	3505
40°	3140	3310	3397
45°	2961	3109	3269
50°	2771	2930	3130
55°	2557	2726	2960
60°	2302	2488	2753
65°	2032	2212	2505
70°	1695	1884	2127
75°	1331	1503	1666
80°	951	1060	1175
85°	618	618	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	4.1
10°-20°	197.7	11.4
20°-30°	288.9	16.7
30°-40°	327.9	19.0
40°-50°	316.5	18.3
50°-60°	261.1	15.1
60°-70°	173.9	10.1
70°-80°	77.8	4.5
80°-90°	13.9	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°	556.9	32.2
0°-40°	884.8	51.2
0°-60°	1462.4	84.6
0°-90°	1728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	746	746	743	739	737	71
15°	703	705	703	700	695	198
25°	625	630	632	628	622	286
35°	502	509	533	535	533	315
45°	389	396	408	427	430	300
55°	272	277	290	307	316	243
65°	160	164	174	186	197	158
75°	64	68	72	76	80	70
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.3	747.3	747.3	747.3	747.3
2.5°	749.3	749.6	747.9	743.3	740.4
5°	746.5	746.2	743.3	739.3	737.0
7.5°	738.1	738.7	737.8	732.1	728.9
10°	730.1	730.4	728.1	723.5	719.8
12.5°	719.8	719.5	716.3	714.0	708.0
15°	703.4	705.1	703.4	700.2	695.4
17.5°	687.6	687.6	688.7	683.3	679.6
20°	669.8	670.7	670.7	666.4	662.0
22.5°	649.1	651.7	652.6	648.0	642.8
25°	624.7	629.6	632.5	627.9	622.4
27.5°	595.2	602.6	611.2	607.8	601.8
30°	562.1	573.0	587.4	584.5	580.2
32.5°	530.8	541.8	561.6	560.4	558.1
35°	502.4	509.3	532.6	535.4	533.4
37.5°	475.4	481.7	503.6	510.2	508.5
40°	447.0	453.9	471.1	482.9	483.5
42.5°	418.9	425.5	439.5	456.5	456.5
45°	389.0	395.6	408.5	427.2	429.5
47.5°	359.7	366.6	379.3	397.9	401.6
50°	331.0	337.3	350.0	368.1	373.8
52.5°	301.2	308.1	320.4	337.1	345.4
55°	272.5	277.0	290.5	306.6	315.5
57.5°	242.6	246.9	262.1	275.9	285.1
60°	213.9	219.3	231.1	245.2	255.8
62.5°	186.3	192.1	202.1	214.5	226.5
65°	159.6	163.9	173.7	186.0	196.7
67.5°	133.8	137.5	147.3	155.9	167.1
70°	107.7	112.5	119.7	128.0	135.2
72.5°	86.7	88.7	94.7	100.8	108.2
75°	64.0	67.5	72.3	75.8	80.1
77.5°	45.9	47.9	50.8	53.7	57.7
80°	30.7	31.6	34.2	34.7	37.9
82.5°	18.7	19.2	19.8	20.1	21.2
85°	10.0	10.0	10.0	9.5	9.5
87.5°	5.7	5.7	4.9	4.0	2.9
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)