

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: P554044

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-96-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: P554044
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

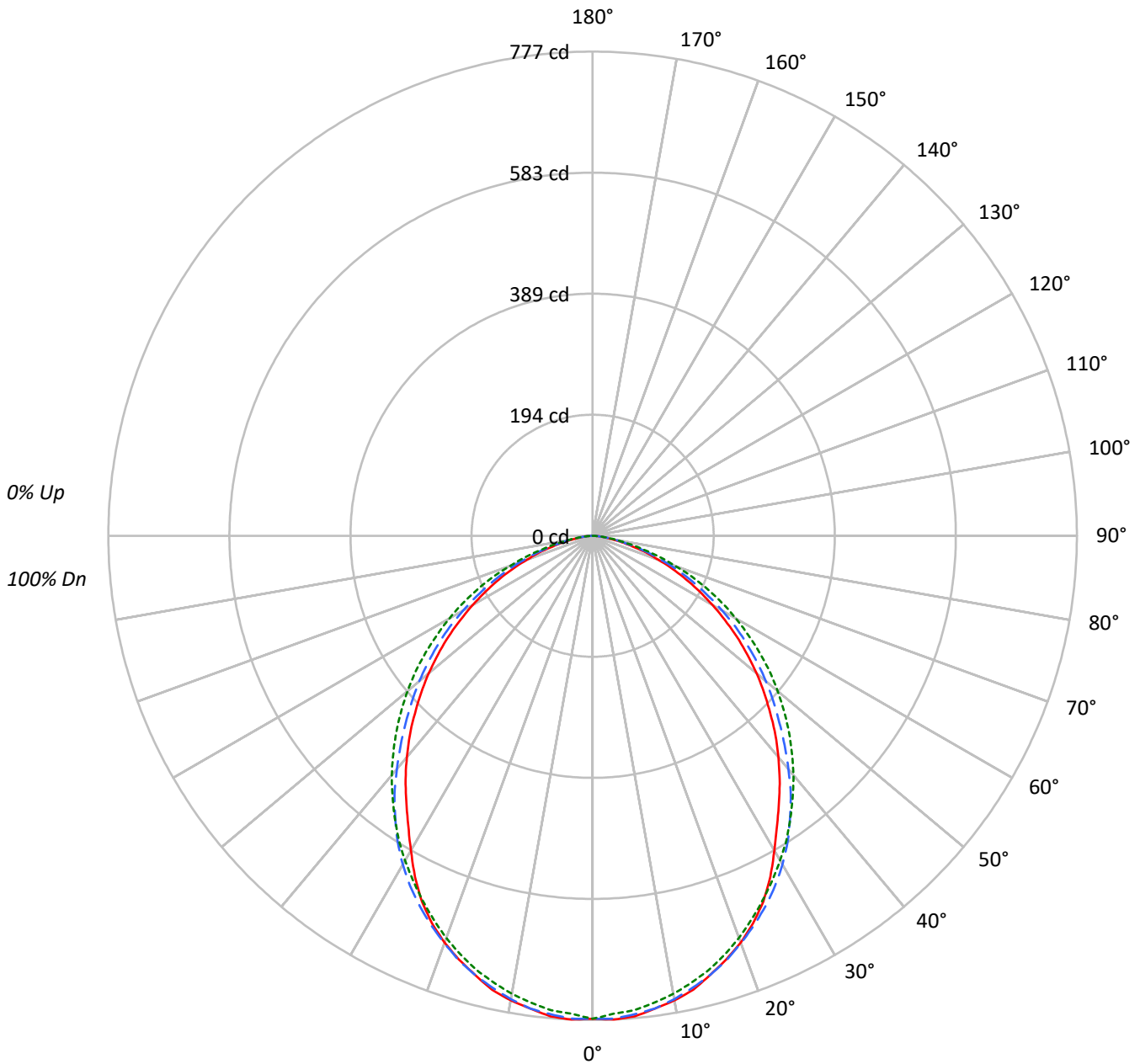
Lumens per Lamp: N/A
Luminaire Lumens: 1792.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4171	4171	4171
5°	4182	4164	4129
10°	4138	4126	4079
15°	4064	4064	4018
20°	3978	3983	3932
25°	3847	3895	3833
30°	3623	3786	3739
35°	3423	3629	3635
40°	3257	3433	3523
45°	3070	3225	3390
50°	2874	3039	3245
55°	2651	2827	3070
60°	2387	2580	2856
65°	2108	2294	2597
70°	1756	1954	2206
75°	1381	1560	1728
80°	989	1097	1218
85°	642	642	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	4.1
10°-20°	205.0	11.4
20°-30°	299.6	16.7
30°-40°	340.0	19.0
40°-50°	328.2	18.3
50°-60°	270.8	15.1
60°-70°	180.3	10.1
70°-80°	80.7	4.5
80°-90°	14.4	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°	577.5	32.2
0°-40°	917.5	51.2
0°-60°	1516.6	84.6
0°-90°	1792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	774	774	771	767	764	73
15°	729	731	729	726	721	206
25°	648	653	656	651	646	297
35°	521	528	552	555	553	326
45°	403	410	424	443	445	311
55°	282	287	301	318	327	252
65°	166	170	180	193	204	164
75°	66	70	75	79	83	73
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°	775.0	775.0	775.0	775.0	775.0
2.5°	777.1	777.4	775.6	770.8	767.8
5°	774.1	773.8	770.8	766.7	764.3
7.5°	765.5	766.1	765.2	759.2	755.9
10°	757.1	757.4	755.0	750.3	746.4
12.5°	746.4	746.1	742.8	740.5	734.2
15°	729.4	731.2	729.4	726.2	721.1
17.5°	713.1	713.1	714.3	708.6	704.7
20°	694.6	695.5	695.5	691.0	686.6
22.5°	673.2	675.8	676.7	672.0	666.6
25°	647.9	652.9	655.9	651.1	645.5
27.5°	617.2	624.9	633.9	630.3	624.0
30°	583.0	594.3	609.2	606.2	601.7
32.5°	550.5	561.8	582.4	581.2	578.8
35°	521.0	528.2	552.3	555.3	553.2
37.5°	493.0	499.6	522.2	529.1	527.3
40°	463.6	470.7	488.6	500.8	501.4
42.5°	434.4	441.2	455.8	473.4	473.4
45°	403.4	410.3	423.7	443.0	445.4
47.5°	373.1	380.2	393.3	412.7	416.5
50°	343.3	349.8	362.9	381.7	387.6
52.5°	312.3	319.5	332.3	349.5	358.2
55°	282.5	287.3	301.3	318.0	327.2
57.5°	251.6	256.0	271.8	286.1	295.6
60°	221.8	227.5	239.7	254.3	265.3
62.5°	193.2	199.2	209.6	222.4	234.9
65°	165.5	170.0	180.1	192.9	203.9
67.5°	138.7	142.6	152.7	161.7	173.3
70°	111.6	116.7	124.2	132.8	140.2
72.5°	89.9	92.0	98.3	104.5	112.2
75°	66.4	70.0	75.0	78.6	83.1
77.5°	47.6	49.7	52.7	55.7	59.8
80°	31.9	32.8	35.4	36.0	39.3
82.5°	19.4	19.9	20.5	20.8	22.0
85°	10.4	10.4	10.4	9.8	9.8
87.5°	6.0	6.0	5.1	4.2	3.0
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)