

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: P554154

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-93-94-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: P554154
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-LD4-1LO-30-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

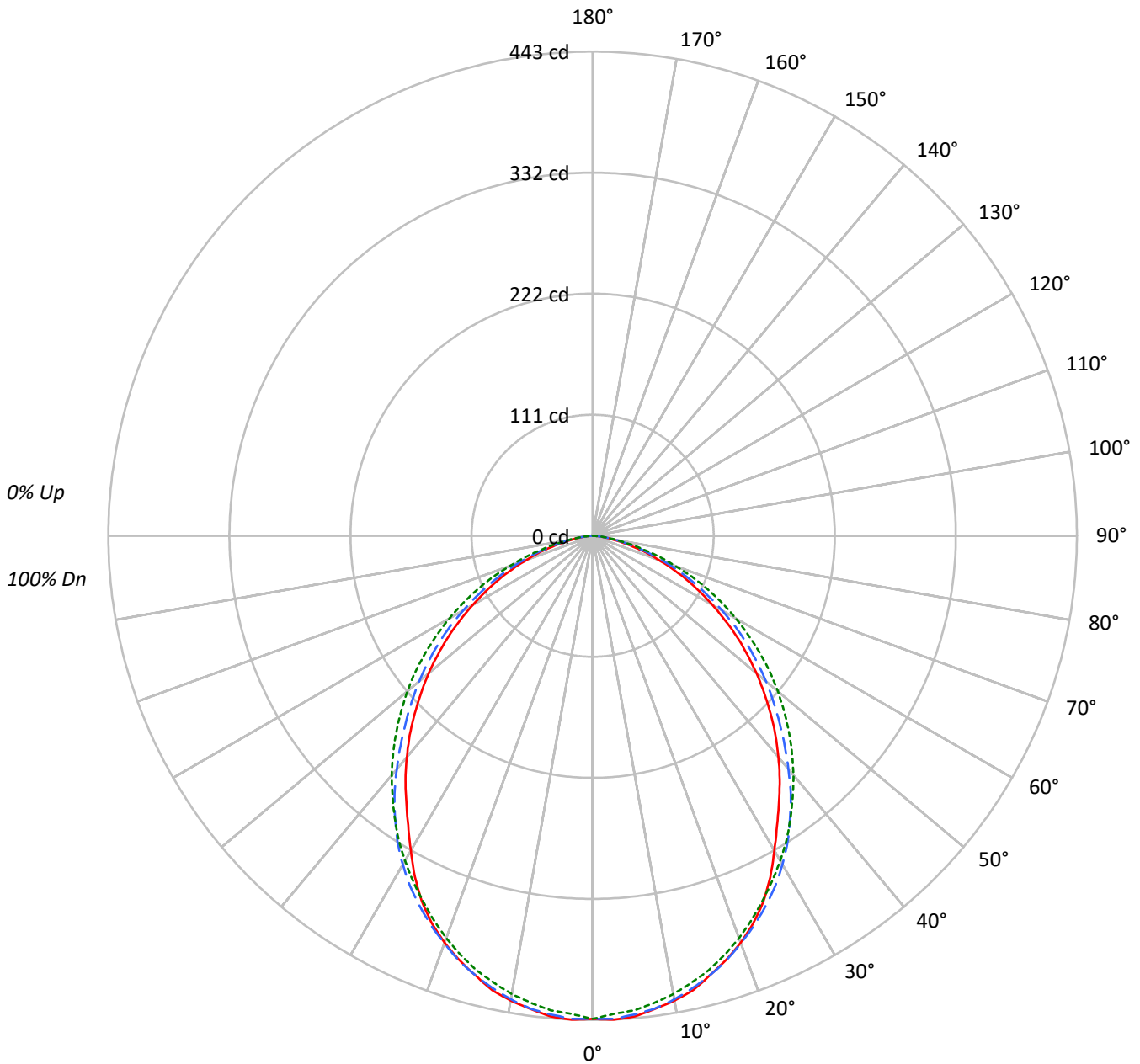
Lumens per Lamp: N/A
Luminaire Lumens: 1022.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2379	2379	2379
5°	2385	2375	2355
10°	2360	2353	2326
15°	2318	2318	2292
20°	2269	2272	2243
25°	2194	2222	2186
30°	2066	2159	2133
35°	1952	2070	2073
40°	1858	1957	2009
45°	1751	1839	1933
50°	1639	1733	1851
55°	1512	1612	1751
60°	1362	1471	1629
65°	1202	1308	1481
70°	1002	1114	1259
75°	788	890	986
80°	564	626	694
85°	364	364	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	4.1
10°-20°	116.9	11.4
20°-30°	170.8	16.7
30°-40°	193.9	19.0
40°-50°	187.2	18.3
50°-60°	154.4	15.1
60°-70°	102.8	10.1
70°-80°	46.0	4.5
80°-90°	8.2	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°	329.4	32.2
0°-40°	523.3	51.2
0°-60°	864.9	84.6
0°-90°	1022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	441	440	437	436	42
15°	416	417	416	414	411	117
25°	370	372	374	371	368	169
35°	297	301	315	317	316	186
45°	230	234	242	253	254	178
55°	161	164	172	181	187	144
65°	94	97	103	110	116	94
75°	38	40	43	45	47	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.0	442.0	442.0	442.0	442.0
2.5°	443.2	443.3	442.3	439.6	437.9
5°	441.5	441.3	439.6	437.2	435.9
7.5°	436.6	436.9	436.4	433.0	431.1
10°	431.8	432.0	430.6	427.9	425.7
12.5°	425.7	425.5	423.7	422.3	418.7
15°	416.0	417.0	416.0	414.1	411.3
17.5°	406.7	406.7	407.3	404.1	401.9
20°	396.1	396.7	396.7	394.1	391.6
22.5°	383.9	385.4	386.0	383.2	380.2
25°	369.5	372.4	374.1	371.4	368.1
27.5°	352.0	356.4	361.5	359.5	355.9
30°	332.5	338.9	347.4	345.7	343.2
32.5°	314.0	320.4	332.1	331.4	330.1
35°	297.1	301.2	315.0	316.7	315.5
37.5°	281.2	284.9	297.8	301.7	300.7
40°	264.4	268.5	278.6	285.6	285.9
42.5°	247.7	251.6	260.0	270.0	270.0
45°	230.1	234.0	241.6	252.7	254.0
47.5°	212.8	216.8	224.3	235.3	237.5
50°	195.8	199.5	207.0	217.7	221.1
52.5°	178.1	182.2	189.5	199.3	204.3
55°	161.1	163.9	171.8	181.3	186.6
57.5°	143.5	146.0	155.0	163.2	168.6
60°	126.5	129.7	136.7	145.0	151.3
62.5°	110.2	113.6	119.5	126.8	134.0
65°	94.4	97.0	102.7	110.0	116.3
67.5°	79.1	81.3	87.1	92.2	98.8
70°	63.7	66.6	70.8	75.7	80.0
72.5°	51.3	52.5	56.0	59.6	64.0
75°	37.9	39.9	42.8	44.8	47.4
77.5°	27.2	28.4	30.1	31.8	34.1
80°	18.2	18.7	20.2	20.5	22.4
82.5°	11.0	11.4	11.7	11.9	12.6
85°	5.9	5.9	5.9	5.6	5.6
87.5°	3.4	3.4	2.9	2.4	1.7
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)