

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: P554218

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554218
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-35-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
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

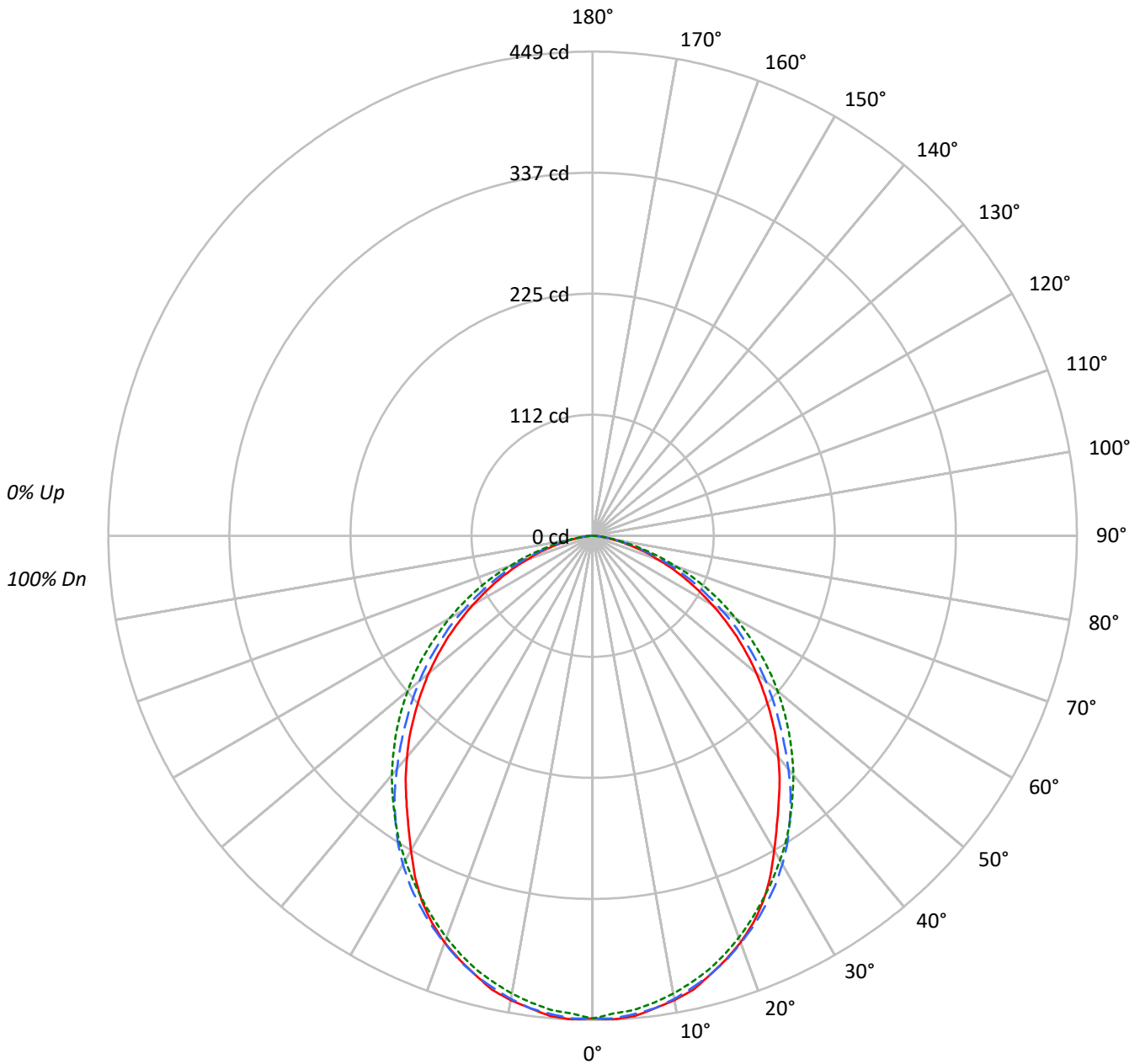
Lumens per Lamp: N/A
Luminaire Lumens: 1035.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2409	2409	2409
5°	2415	2405	2385
10°	2390	2383	2356
15°	2347	2347	2321
20°	2298	2301	2271
25°	2222	2249	2214
30°	2092	2186	2160
35°	1977	2096	2099
40°	1881	1983	2035
45°	1773	1862	1958
50°	1660	1755	1875
55°	1531	1633	1773
60°	1379	1490	1649
65°	1217	1324	1500
70°	1015	1128	1275
75°	796	900	998
80°	570	635	704
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	4.1
10°-20°	118.4	11.4
20°-30°	173.0	16.7
30°-40°	196.4	19.0
40°-50°	189.6	18.3
50°-60°	156.4	15.1
60°-70°	104.1	10.1
70°-80°	46.6	4.5
80°-90°	8.3	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°	333.5	32.2
0°-40°	529.9	51.2
0°-60°	875.9	84.6
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	447	447	445	443	441	42
15°	421	422	421	419	416	119
25°	374	377	379	376	373	171
35°	301	305	319	321	320	189
45°	233	237	245	256	257	180
55°	163	166	174	184	189	146
65°	96	98	104	111	118	95
75°	38	40	43	45	48	42
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°	447.6	447.6	447.6	447.6	447.6
2.5°	448.8	449.0	448.0	445.2	443.5
5°	447.1	446.9	445.2	442.8	441.4
7.5°	442.1	442.5	441.9	438.5	436.6
10°	437.3	437.5	436.1	433.3	431.1
12.5°	431.1	430.9	429.0	427.7	424.1
15°	421.3	422.3	421.3	419.4	416.5
17.5°	411.8	411.8	412.5	409.3	407.0
20°	401.2	401.7	401.7	399.1	396.5
22.5°	388.8	390.3	390.9	388.1	385.0
25°	374.2	377.1	378.8	376.1	372.8
27.5°	356.5	360.9	366.1	364.0	360.4
30°	336.7	343.2	351.8	350.1	347.5
32.5°	318.0	324.5	336.4	335.7	334.3
35°	300.9	305.1	319.0	320.7	319.5
37.5°	284.8	288.5	301.6	305.6	304.5
40°	267.7	271.9	282.2	289.2	289.6
42.5°	250.9	254.8	263.3	273.4	273.4
45°	233.0	237.0	244.7	255.9	257.3
47.5°	215.5	219.6	227.2	238.3	240.6
50°	198.3	202.1	209.6	220.5	223.9
52.5°	180.4	184.5	191.9	201.9	206.9
55°	163.2	165.9	174.0	183.7	189.0
57.5°	145.3	147.9	157.0	165.3	170.8
60°	128.1	131.4	138.4	146.9	153.2
62.5°	111.6	115.0	121.1	128.5	135.7
65°	95.6	98.2	104.0	111.4	117.8
67.5°	80.1	82.4	88.2	93.4	100.1
70°	64.5	67.4	71.7	76.7	81.0
72.5°	51.9	53.1	56.7	60.4	64.8
75°	38.3	40.4	43.3	45.4	48.0
77.5°	27.5	28.7	30.4	32.2	34.6
80°	18.4	18.9	20.5	20.8	22.7
82.5°	11.2	11.5	11.9	12.0	12.7
85°	6.0	6.0	6.0	5.7	5.7
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)