

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: P555704

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-88-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: P555704
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-LD4-3LO-35-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

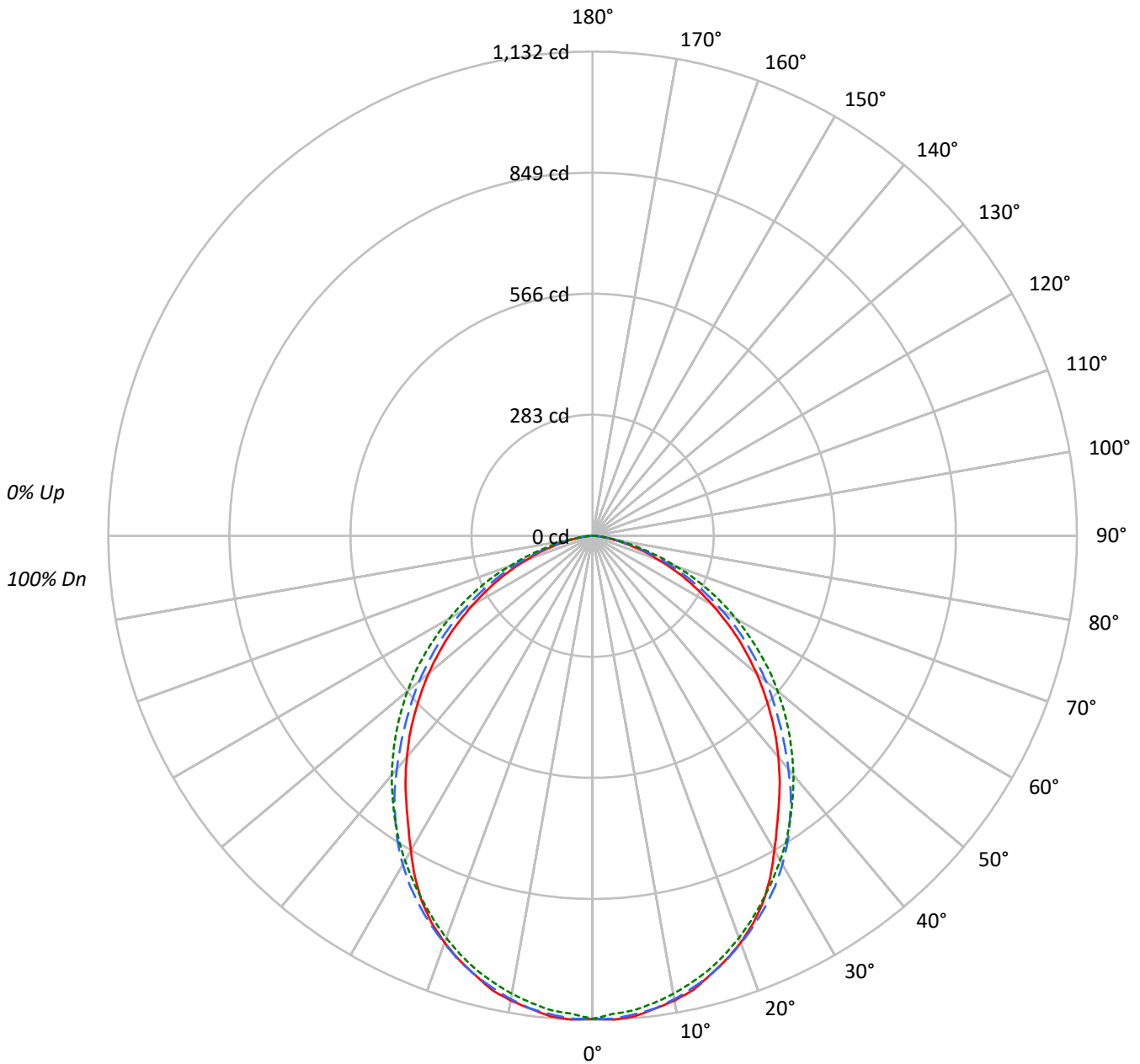
Lumens per Lamp: N/A
Luminaire Lumens: 2611.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6077	6077	6077
5°	6093	6068	6016
10°	6029	6012	5943
15°	5922	5922	5854
20°	5797	5804	5730
25°	5606	5675	5585
30°	5279	5516	5448
35°	4988	5287	5296
40°	4745	5002	5132
45°	4474	4698	4940
50°	4188	4428	4729
55°	3863	4119	4473
60°	3479	3759	4160
65°	3072	3343	3785
70°	2560	2847	3215
75°	2011	2273	2516
80°	1438	1599	1776
85°	939	939	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	4.1
10°-20°	298.7	11.4
20°-30°	436.5	16.7
30°-40°	495.4	19.0
40°-50°	478.3	18.3
50°-60°	394.5	15.1
60°-70°	262.7	10.1
70°-80°	117.6	4.5
80°-90°	21.0	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°	841.5	32.2
0°-40°	1336.9	51.2
0°-60°	2209.7	84.6
0°-90°	2611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1128	1128	1123	1117	1114	107
15°	1063	1065	1063	1058	1051	300
25°	944	951	956	949	940	432
35°	759	770	805	809	806	476
45°	588	598	617	646	649	454
55°	412	419	439	463	477	367
65°	241	248	262	281	297	239
75°	97	102	109	114	121	106
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.2	1129.2	1129.2	1129.2	1129.2
2.5°	1132.2	1132.7	1130.1	1123.1	1118.8
5°	1127.9	1127.5	1123.1	1117.0	1113.6
7.5°	1115.3	1116.2	1114.9	1106.2	1101.4
10°	1103.2	1103.6	1100.1	1093.2	1087.5
12.5°	1087.5	1087.1	1082.3	1078.9	1069.8
15°	1062.8	1065.4	1062.8	1058.0	1050.7
17.5°	1039.0	1039.0	1040.7	1032.5	1026.8
20°	1012.1	1013.4	1013.4	1006.9	1000.4
22.5°	980.8	984.7	986.0	979.1	971.3
25°	944.0	951.3	955.7	948.7	940.5
27.5°	899.3	910.6	923.6	918.4	909.3
30°	849.4	865.9	887.6	883.2	876.7
32.5°	802.1	818.6	848.5	846.8	843.3
35°	759.2	769.6	804.7	809.0	806.0
37.5°	718.4	727.9	760.9	770.9	768.3
40°	675.4	685.8	711.9	729.7	730.5
42.5°	632.9	642.9	664.2	689.7	689.7
45°	587.8	597.8	617.3	645.5	649.0
47.5°	543.6	554.0	573.1	601.3	606.9
50°	500.2	509.7	528.8	556.1	564.8
52.5°	455.1	465.5	484.1	509.3	521.9
55°	411.7	418.6	439.0	463.3	476.7
57.5°	366.6	373.1	396.1	416.9	430.8
60°	323.2	331.4	349.2	370.5	386.5
62.5°	281.5	290.2	305.4	324.1	342.3
65°	241.2	247.7	262.5	281.1	297.2
67.5°	202.2	207.8	222.5	235.6	252.5
70°	162.7	170.1	180.9	193.5	204.3
72.5°	131.0	134.0	143.2	152.3	163.5
75°	96.7	101.9	109.3	114.5	121.0
77.5°	69.4	72.4	76.8	81.1	87.2
80°	46.4	47.7	51.6	52.5	57.3
82.5°	28.2	29.1	29.9	30.4	32.1
85°	15.2	15.2	15.2	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	4.3
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)