

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: P555884

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-96-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: P555884
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-50-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

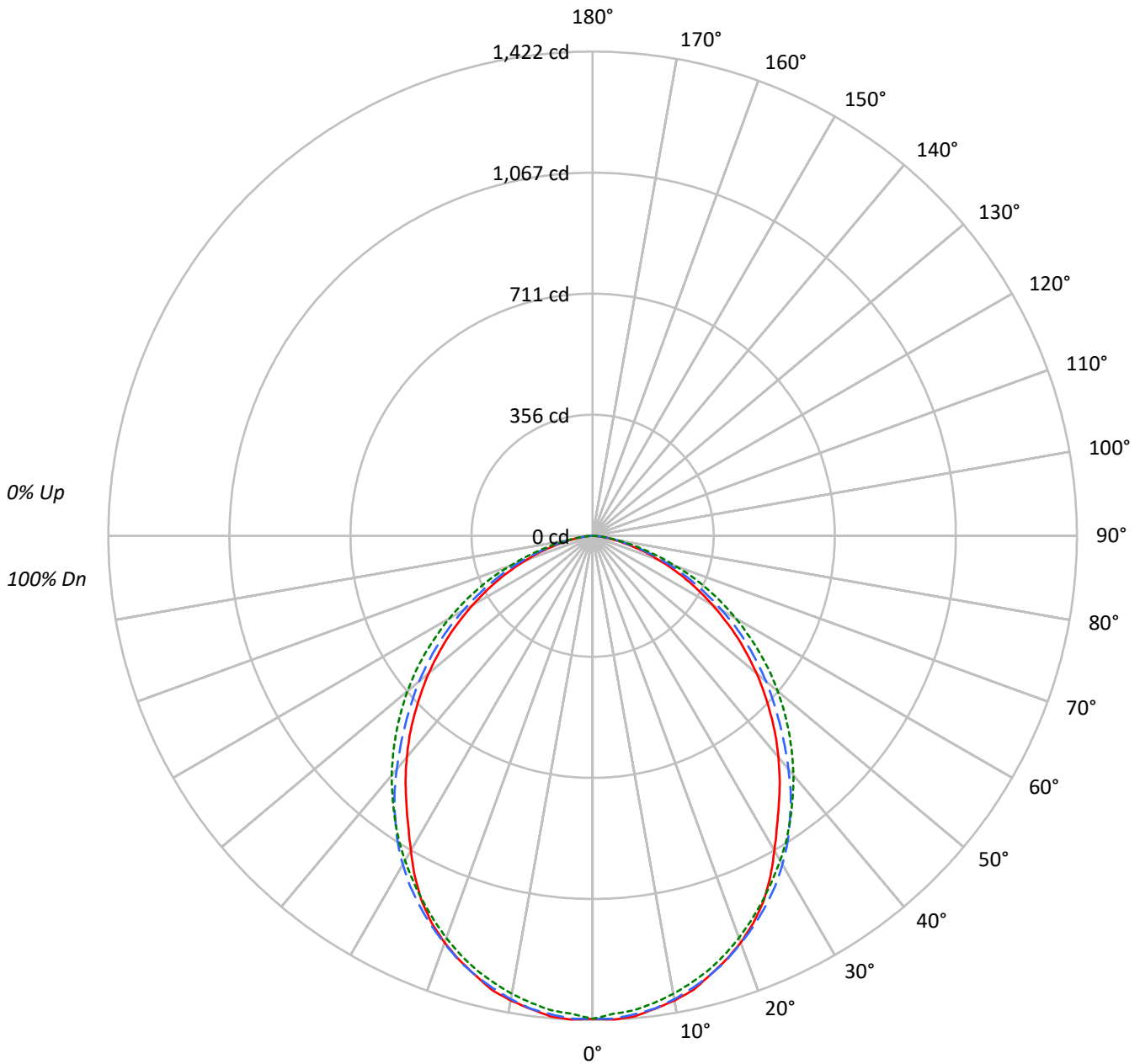
Lumens per Lamp: N/A
Luminaire Lumens: 3280.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7634	7634	7634
5°	7655	7622	7558
10°	7573	7553	7466
15°	7439	7439	7354
20°	7282	7291	7198
25°	7042	7129	7016
30°	6631	6929	6845
35°	6266	6642	6652
40°	5961	6283	6447
45°	5620	5903	6205
50°	5261	5562	5941
55°	4853	5175	5620
60°	4370	4722	5227
65°	3859	4199	4754
70°	3216	3575	4039
75°	2527	2855	3161
80°	1807	2008	2228
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	4.1
10°-20°	375.2	11.4
20°-30°	548.3	16.7
30°-40°	622.4	19.0
40°-50°	600.8	18.3
50°-60°	495.6	15.1
60°-70°	330.0	10.1
70°-80°	147.7	4.5
80°-90°	26.4	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°	1057.1	32.2
0°-40°	1679.4	51.2
0°-60°	2775.8	84.6
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1417	1416	1411	1403	1399	134
15°	1335	1338	1335	1329	1320	376
25°	1186	1195	1200	1192	1182	543
35°	954	967	1011	1016	1012	598
45°	738	751	776	811	815	570
55°	517	526	552	582	599	462
65°	303	311	330	353	373	300
75°	122	128	137	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.5	1418.5	1418.5	1418.5	1418.5
2.5°	1422.3	1422.9	1419.6	1410.9	1405.4
5°	1416.9	1416.3	1410.9	1403.3	1398.9
7.5°	1401.1	1402.2	1400.5	1389.6	1383.6
10°	1385.8	1386.4	1382.0	1373.3	1366.2
12.5°	1366.2	1365.7	1359.7	1355.3	1343.9
15°	1335.1	1338.4	1335.1	1329.1	1319.9
17.5°	1305.2	1305.2	1307.3	1297.0	1289.9
20°	1271.4	1273.0	1273.0	1264.8	1256.7
22.5°	1232.1	1237.0	1238.7	1230.0	1220.2
25°	1185.8	1195.1	1200.5	1191.8	1181.5
27.5°	1129.7	1143.9	1160.2	1153.7	1142.2
30°	1067.0	1087.7	1115.0	1109.5	1101.4
32.5°	1007.6	1028.3	1065.9	1063.8	1059.4
35°	953.7	966.7	1010.9	1016.3	1012.5
37.5°	902.4	914.4	955.8	968.4	965.1
40°	848.5	861.6	894.3	916.6	917.7
42.5°	795.1	807.6	834.3	866.5	866.5
45°	738.4	750.9	775.5	810.9	815.3
47.5°	682.8	695.9	719.9	755.3	762.4
50°	628.3	640.3	664.3	698.6	709.5
52.5°	571.7	584.7	608.2	639.8	655.6
55°	517.2	525.9	551.5	582.0	598.9
57.5°	460.5	468.7	497.5	523.7	541.1
60°	406.0	416.3	438.7	465.4	485.6
62.5°	353.7	364.6	383.6	407.1	430.0
65°	303.0	311.2	329.7	353.1	373.3
67.5°	253.9	261.0	279.6	295.9	317.2
70°	204.4	213.6	227.2	243.0	256.7
72.5°	164.6	168.4	179.8	191.3	205.4
75°	121.5	128.1	137.3	143.9	152.0
77.5°	87.2	91.0	96.5	101.9	109.5
80°	58.3	59.9	64.8	65.9	71.9
82.5°	35.4	36.5	37.6	38.1	40.3
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.6	5.4
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)