

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: P555374

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-93-97-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: P555374
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-LD4-2STD-50-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

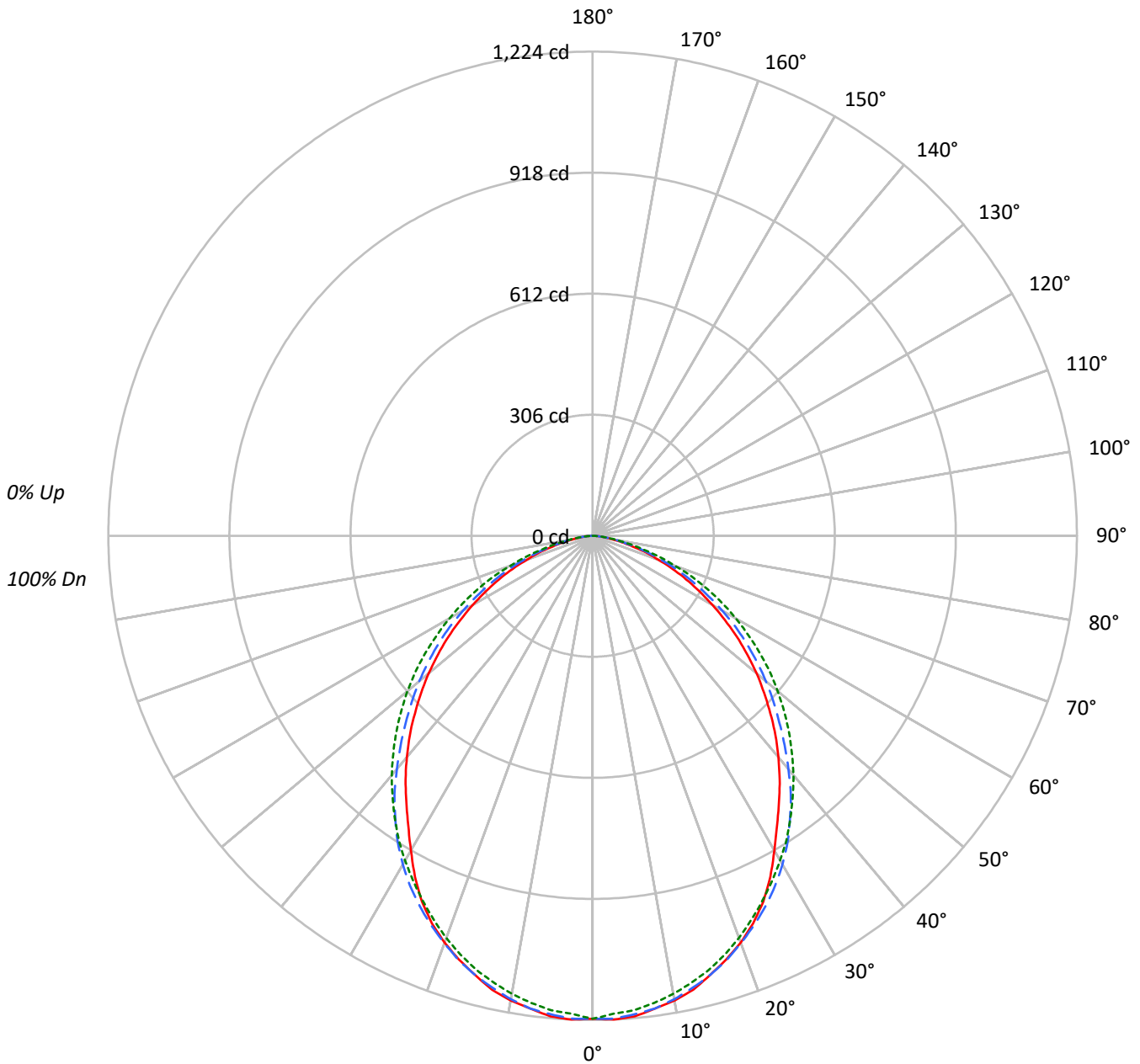
Lumens per Lamp: N/A
Luminaire Lumens: 2823.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6571	6571	6571
5°	6588	6560	6505
10°	6518	6500	6426
15°	6403	6403	6330
20°	6267	6275	6195
25°	6061	6136	6038
30°	5707	5963	5891
35°	5393	5716	5726
40°	5131	5408	5549
45°	4837	5080	5341
50°	4528	4787	5113
55°	4176	4454	4837
60°	3761	4064	4498
65°	3321	3614	4092
70°	2768	3078	3476
75°	2175	2458	2722
80°	1556	1729	1918
85°	1013	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	4.1
10°-20°	322.9	11.4
20°-30°	471.9	16.7
30°-40°	535.7	19.0
40°-50°	517.1	18.3
50°-60°	426.6	15.1
60°-70°	284.1	10.1
70°-80°	127.1	4.5
80°-90°	22.7	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°	909.8	32.2
0°-40°	1445.4	51.2
0°-60°	2389.1	84.6
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1220	1219	1214	1208	1204	115
15°	1149	1152	1149	1144	1136	324
25°	1021	1029	1033	1026	1017	467
35°	821	832	870	875	872	514
45°	636	646	667	698	702	490
55°	445	453	475	501	516	397
65°	261	268	284	304	321	259
75°	105	110	118	124	131	114
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1224.2	1224.6	1221.8	1214.3	1209.6
5°	1219.5	1219.0	1214.3	1207.7	1204.0
7.5°	1205.9	1206.8	1205.4	1196.0	1190.9
10°	1192.7	1193.2	1189.4	1181.9	1175.8
12.5°	1175.8	1175.4	1170.2	1166.5	1156.6
15°	1149.1	1151.9	1149.1	1144.0	1136.0
17.5°	1123.3	1123.3	1125.2	1116.3	1110.2
20°	1094.2	1095.6	1095.6	1088.6	1081.6
22.5°	1060.5	1064.7	1066.1	1058.6	1050.1
25°	1020.6	1028.6	1033.3	1025.8	1016.8
27.5°	972.3	984.5	998.6	992.9	983.1
30°	918.4	936.2	959.6	954.9	947.9
32.5°	867.2	885.1	917.4	915.5	911.8
35°	820.8	832.1	870.0	874.7	871.5
37.5°	776.7	787.0	822.7	833.5	830.6
40°	730.3	741.5	769.7	788.9	789.8
42.5°	684.3	695.1	718.1	745.8	745.8
45°	635.5	646.3	667.4	697.9	701.7
47.5°	587.7	598.9	619.6	650.1	656.2
50°	540.8	551.1	571.7	601.3	610.7
52.5°	492.0	503.3	523.4	550.6	564.2
55°	445.1	452.6	474.7	500.9	515.5
57.5°	396.3	403.4	428.2	450.7	465.7
60°	349.4	358.3	377.6	400.5	417.9
62.5°	304.4	313.8	330.2	350.4	370.1
65°	260.8	267.8	283.8	303.9	321.3
67.5°	218.6	224.7	240.6	254.7	273.0
70°	175.9	183.9	195.6	209.2	220.9
72.5°	141.6	144.9	154.8	164.6	176.8
75°	104.6	110.2	118.2	123.8	130.9
77.5°	75.0	78.3	83.0	87.7	94.3
80°	50.2	51.6	55.8	56.8	61.9
82.5°	30.5	31.4	32.4	32.8	34.7
85°	16.4	16.4	16.4	15.5	15.5
87.5°	9.4	9.4	8.0	6.6	4.7
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)