

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: P555370

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-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: P555370
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-93-94-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

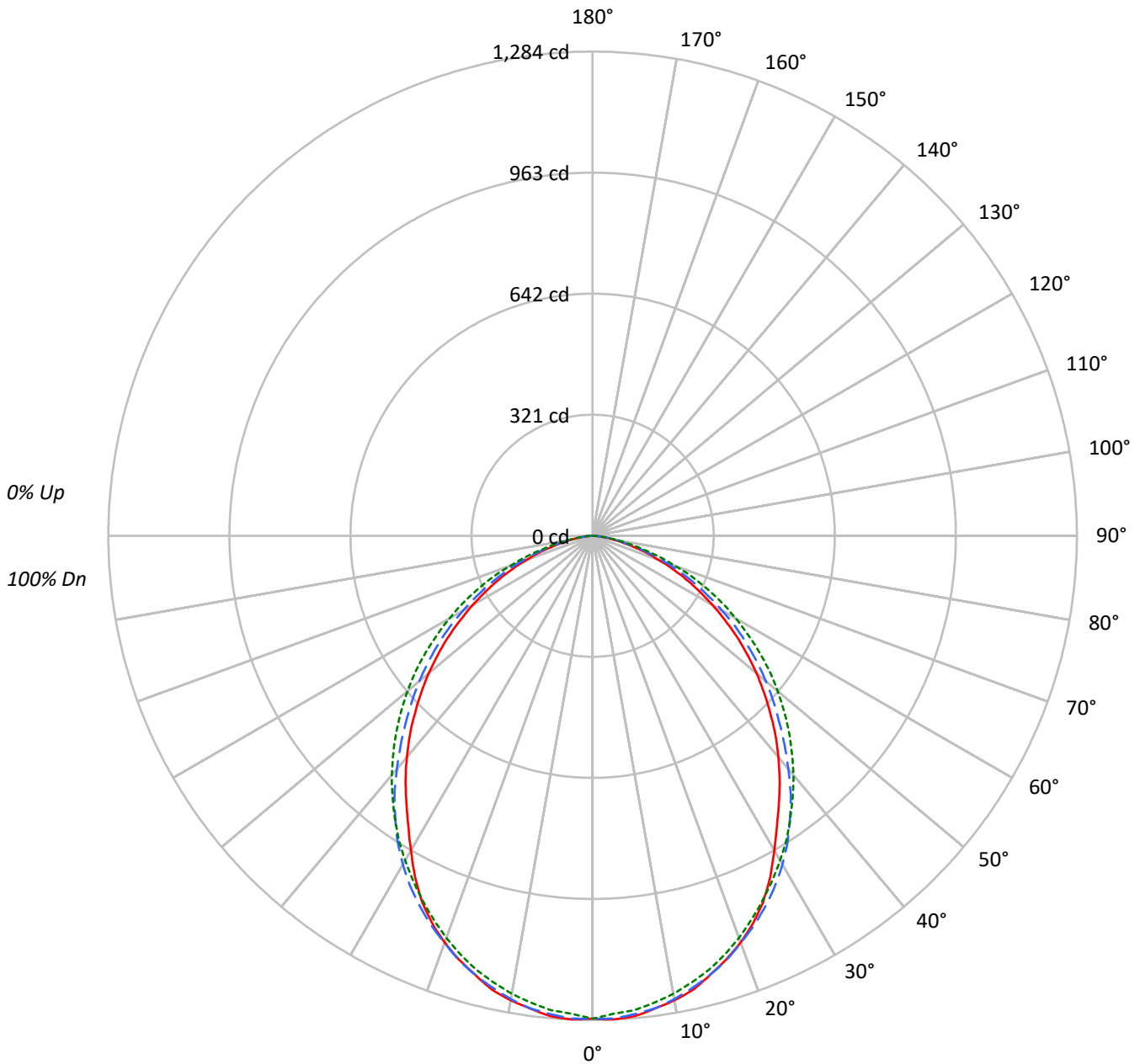
Lumens per Lamp: N/A
Luminaire Lumens: 2961.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6892	6892	6892
5°	6910	6881	6822
10°	6837	6818	6740
15°	6716	6716	6639
20°	6573	6582	6497
25°	6357	6436	6334
30°	5986	6255	6179
35°	5656	5996	6006
40°	5382	5672	5821
45°	5074	5329	5602
50°	4749	5021	5363
55°	4381	4672	5073
60°	3945	4263	4718
65°	3483	3790	4292
70°	2903	3227	3646
75°	2281	2578	2855
80°	1630	1813	2011
85°	1062	1062	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	4.1
10°-20°	338.7	11.4
20°-30°	495.0	16.7
30°-40°	561.8	19.0
40°-50°	542.4	18.3
50°-60°	447.4	15.1
60°-70°	297.9	10.1
70°-80°	133.3	4.5
80°-90°	23.8	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°	954.2	32.2
0°-40°	1516.1	51.2
0°-60°	2505.9	84.6
0°-90°	2961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1279	1279	1274	1267	1263	121
15°	1205	1208	1205	1200	1192	340
25°	1070	1079	1084	1076	1067	490
35°	861	873	913	918	914	539
45°	667	678	700	732	736	514
55°	467	475	498	525	541	417
65°	274	281	298	319	337	271
75°	110	116	124	130	137	120
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.6	1280.6	1280.6	1280.6	1280.6
2.5°	1284.0	1284.5	1281.5	1273.7	1268.7
5°	1279.1	1278.6	1273.7	1266.8	1262.8
7.5°	1264.8	1265.8	1264.3	1254.5	1249.1
10°	1251.0	1251.5	1247.6	1239.7	1233.3
12.5°	1233.3	1232.8	1227.4	1223.5	1213.2
15°	1205.3	1208.2	1205.3	1199.9	1191.5
17.5°	1178.2	1178.2	1180.2	1170.9	1164.5
20°	1147.7	1149.2	1149.2	1141.8	1134.4
22.5°	1112.3	1116.7	1118.2	1110.3	1101.5
25°	1070.5	1078.9	1083.8	1075.9	1066.6
27.5°	1019.8	1032.6	1047.4	1041.5	1031.1
30°	963.2	981.9	1006.5	1001.6	994.2
32.5°	909.6	928.3	962.3	960.3	956.4
35°	860.9	872.7	912.6	917.5	914.1
37.5°	814.7	825.5	862.9	874.2	871.3
40°	766.0	777.8	807.3	827.5	828.5
42.5°	717.8	729.1	753.2	782.2	782.2
45°	666.6	677.9	700.1	732.0	736.0
47.5°	616.4	628.2	649.9	681.8	688.2
50°	567.2	578.0	599.7	630.7	640.5
52.5°	516.1	527.9	549.0	577.6	591.8
55°	466.9	474.7	497.9	525.4	540.7
57.5°	415.7	423.1	449.2	472.8	488.5
60°	366.5	375.9	396.0	420.1	438.3
62.5°	319.3	329.1	346.3	367.5	388.2
65°	273.5	280.9	297.6	318.8	337.0
67.5°	229.3	235.6	252.4	267.1	286.3
70°	184.5	192.8	205.1	219.4	231.7
72.5°	148.6	152.0	162.3	172.7	185.5
75°	109.7	115.6	124.0	129.9	137.3
77.5°	78.7	82.2	87.1	92.0	98.9
80°	52.6	54.1	58.5	59.5	64.9
82.5°	32.0	33.0	33.9	34.4	36.4
85°	17.2	17.2	17.2	16.2	16.2
87.5°	9.8	9.8	8.4	6.9	4.9
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)