

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: P555355

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-82-94-EDD**

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: P555355
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

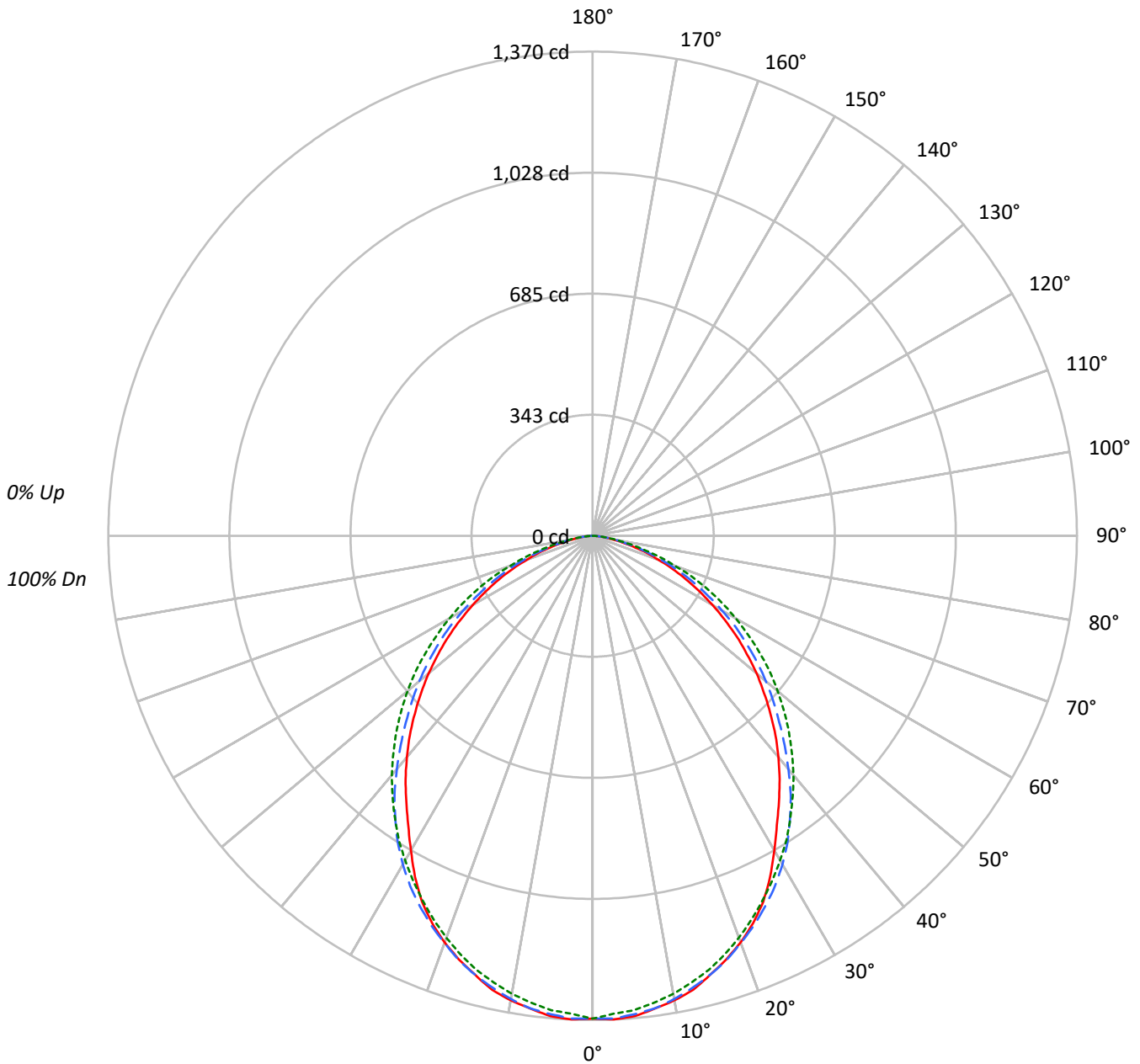
Lumens per Lamp: N/A
Luminaire Lumens: 3159.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7353	7353	7353
5°	7372	7341	7279
10°	7294	7274	7191
15°	7165	7165	7083
20°	7013	7022	6932
25°	6782	6866	6757
30°	6387	6673	6592
35°	6035	6397	6407
40°	5741	6051	6209
45°	5413	5685	5976
50°	5067	5357	5722
55°	4674	4983	5412
60°	4209	4548	5033
65°	3716	4043	4578
70°	3097	3445	3890
75°	2433	2751	3044
80°	1742	1937	2148
85°	1136	1136	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.1
10°-20°	361.4	11.4
20°-30°	528.1	16.7
30°-40°	599.4	19.0
40°-50°	578.6	18.3
50°-60°	477.3	15.1
60°-70°	317.9	10.1
70°-80°	142.2	4.5
80°-90°	25.4	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°	1018.1	32.2
0°-40°	1617.5	51.2
0°-60°	2673.4	84.6
0°-90°	3159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1365	1364	1359	1352	1347	129
15°	1286	1289	1286	1280	1271	363
25°	1142	1151	1156	1148	1138	523
35°	918	931	974	979	975	575
45°	711	723	747	781	785	549
55°	498	506	531	560	577	445
65°	292	300	318	340	360	289
75°	117	123	132	139	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.2	1366.2	1366.2	1366.2	1366.2
2.5°	1369.9	1370.4	1367.2	1358.8	1353.6
5°	1364.6	1364.1	1358.8	1351.5	1347.3
7.5°	1349.4	1350.4	1348.9	1338.4	1332.6
10°	1334.7	1335.2	1331.0	1322.6	1315.8
12.5°	1315.8	1315.3	1309.5	1305.3	1294.3
15°	1285.9	1289.0	1285.9	1280.1	1271.2
17.5°	1257.0	1257.0	1259.1	1249.1	1242.3
20°	1224.5	1226.1	1226.1	1218.2	1210.3
22.5°	1186.7	1191.4	1193.0	1184.6	1175.1
25°	1142.1	1151.0	1156.2	1147.8	1137.9
27.5°	1088.0	1101.7	1117.4	1111.1	1100.1
30°	1027.7	1047.6	1073.8	1068.6	1060.7
32.5°	970.4	990.4	1026.6	1024.5	1020.3
35°	918.5	931.1	973.6	978.8	975.2
37.5°	869.2	880.7	920.6	932.7	929.5
40°	817.2	829.8	861.3	882.8	883.8
42.5°	765.8	777.8	803.5	834.5	834.5
45°	711.2	723.2	746.9	781.0	785.2
47.5°	657.6	670.2	693.3	727.4	734.3
50°	605.2	616.7	639.8	672.9	683.4
52.5°	550.6	563.2	585.7	616.2	631.4
55°	498.1	506.5	531.1	560.5	576.8
57.5°	443.5	451.4	479.2	504.4	521.2
60°	391.0	401.0	422.5	448.2	467.6
62.5°	340.6	351.1	369.5	392.1	414.1
65°	291.8	299.7	317.5	340.1	359.5
67.5°	244.6	251.4	269.2	285.0	305.5
70°	196.8	205.7	218.9	234.1	247.2
72.5°	158.5	162.2	173.2	184.2	197.9
75°	117.0	123.3	132.3	138.6	146.4
77.5°	84.0	87.7	92.9	98.1	105.5
80°	56.2	57.7	62.5	63.5	69.3
82.5°	34.1	35.2	36.2	36.7	38.8
85°	18.4	18.4	18.4	17.3	17.3
87.5°	10.5	10.5	8.9	7.3	5.2
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)