

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: P555194

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-94-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: P555194
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-35-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

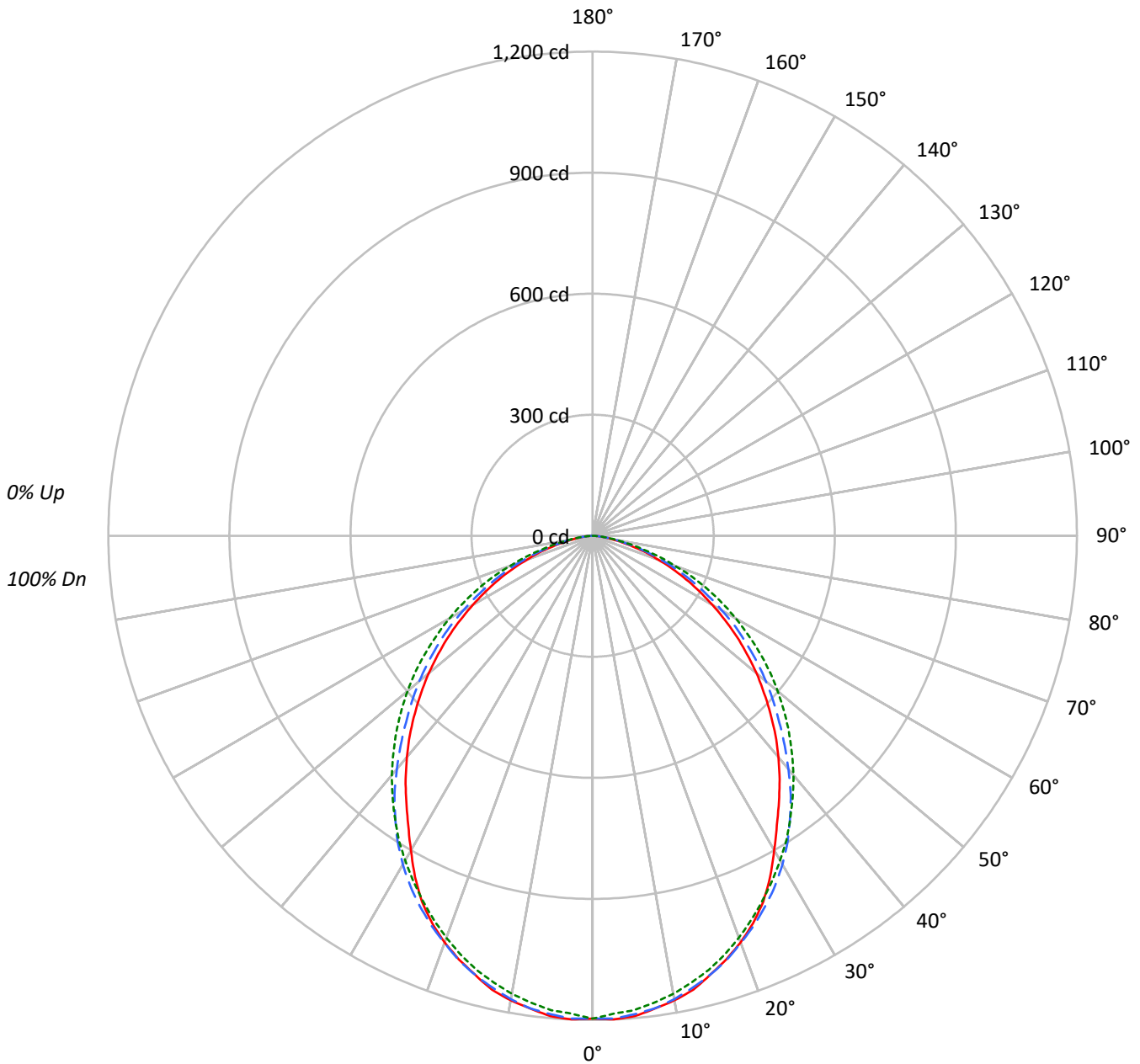
Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-80-94-EDD-90

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°	6441	6441	6441
5°	6458	6430	6376
10°	6389	6372	6298
15°	6276	6276	6204
20°	6143	6151	6072
25°	5941	6014	5919
30°	5594	5845	5774
35°	5286	5603	5612
40°	5029	5300	5439
45°	4741	4979	5234
50°	4438	4692	5012
55°	4094	4365	4740
60°	3687	3984	4409
65°	3255	3542	4010
70°	2713	3017	3407
75°	2131	2408	2668
80°	1525	1695	1881
85°	994	994	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	4.1
10°-20°	316.5	11.4
20°-30°	462.5	16.7
30°-40°	525.0	19.0
40°-50°	506.8	18.3
50°-60°	418.1	15.1
60°-70°	278.4	10.1
70°-80°	124.6	4.5
80°-90°	22.3	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°	891.7	32.2
0°-40°	1416.8	51.2
0°-60°	2341.7	84.6
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1195	1195	1190	1184	1180	113
15°	1126	1129	1126	1121	1113	318
25°	1000	1008	1013	1005	997	458
35°	804	816	853	857	854	504
45°	623	634	654	684	688	481
55°	436	444	465	491	505	389
65°	256	262	278	298	315	253
75°	102	108	116	121	128	112
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1199.9	1200.3	1197.6	1190.2	1185.6
5°	1195.3	1194.8	1190.2	1183.8	1180.1
7.5°	1181.9	1182.9	1181.5	1172.3	1167.2
10°	1169.1	1169.5	1165.9	1158.5	1152.5
12.5°	1152.5	1152.1	1147.0	1143.3	1133.7
15°	1126.3	1129.1	1126.3	1121.3	1113.4
17.5°	1101.0	1101.0	1102.9	1094.1	1088.2
20°	1072.5	1073.9	1073.9	1067.0	1060.1
22.5°	1039.4	1043.6	1044.9	1037.6	1029.3
25°	1000.4	1008.2	1012.8	1005.4	996.7
27.5°	953.0	965.0	978.7	973.2	963.6
30°	900.1	917.6	940.6	936.0	929.1
32.5°	850.0	867.5	899.2	897.4	893.7
35°	804.5	815.5	852.8	857.4	854.2
37.5°	761.3	771.4	806.4	816.9	814.2
40°	715.8	726.8	754.4	773.3	774.2
42.5°	670.7	681.3	703.8	731.0	731.0
45°	622.9	633.5	654.2	684.1	687.7
47.5°	576.0	587.1	607.3	637.2	643.2
50°	530.1	540.2	560.4	589.4	598.6
52.5°	482.2	493.3	513.0	539.7	553.0
55°	436.3	443.6	465.2	491.0	505.2
57.5°	388.5	395.4	419.7	441.8	456.5
60°	342.5	351.2	370.1	392.6	409.6
62.5°	298.4	307.6	323.6	343.4	362.7
65°	255.6	262.5	278.1	297.9	314.9
67.5°	214.2	220.2	235.8	249.6	267.6
70°	172.4	180.2	191.7	205.0	216.5
72.5°	138.8	142.1	151.7	161.4	173.3
75°	102.5	108.0	115.8	121.4	128.3
77.5°	73.6	76.8	81.4	86.0	92.4
80°	49.2	50.6	54.7	55.6	60.7
82.5°	29.9	30.8	31.7	32.2	34.0
85°	16.1	16.1	16.1	15.2	15.2
87.5°	9.2	9.2	7.8	6.4	4.6
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)