

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: P555372

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555372
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-93-96-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

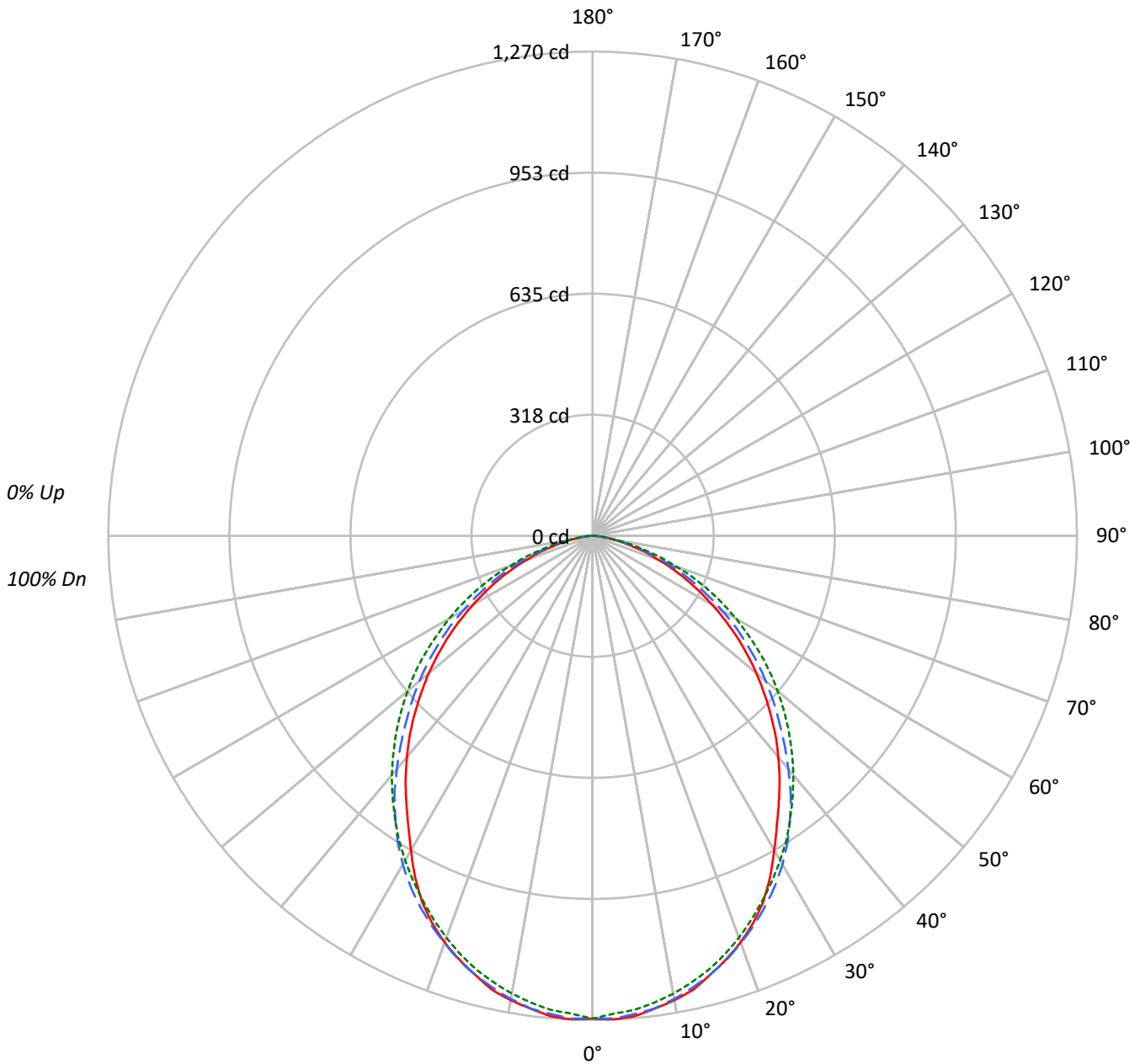
Lumens per Lamp: N/A
Luminaire Lumens: 2928.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555372

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-93-96-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°	6815	6815	6815
5°	6833	6804	6747
10°	6761	6742	6665
15°	6641	6641	6565
20°	6500	6509	6425
25°	6286	6364	6263
30°	5919	6185	6110
35°	5593	5929	5939
40°	5321	5609	5755
45°	5017	5268	5539
50°	4696	4965	5303
55°	4332	4619	5016
60°	3901	4215	4665
65°	3445	3748	4243
70°	2870	3193	3605
75°	2256	2549	2822
80°	1615	1795	1990
85°	1050	1050	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	4.1
10°-20°	334.9	11.4
20°-30°	489.5	16.7
30°-40°	555.6	19.0
40°-50°	536.3	18.3
50°-60°	442.4	15.1
60°-70°	294.6	10.1
70°-80°	131.8	4.5
80°-90°	23.6	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°	943.6	32.2
0°-40°	1499.2	51.2
0°-60°	2478.0	84.6
0°-90°	2928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1265	1264	1260	1253	1249	120
15°	1192	1195	1192	1186	1178	336
25°	1059	1067	1072	1064	1055	485
35°	851	863	902	907	904	533
45°	659	670	692	724	728	509
55°	462	469	492	520	535	412
65°	270	278	294	315	333	268
75°	108	114	123	128	136	119
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°	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1269.7	1270.2	1267.3	1259.5	1254.6
5°	1264.8	1264.3	1259.5	1252.7	1248.8
7.5°	1250.7	1251.7	1250.2	1240.5	1235.2
10°	1237.1	1237.6	1233.7	1225.9	1219.6
12.5°	1219.6	1219.1	1213.7	1209.9	1199.6
15°	1191.9	1194.8	1191.9	1186.5	1178.2
17.5°	1165.1	1165.1	1167.0	1157.8	1151.5
20°	1134.9	1136.4	1136.4	1129.1	1121.8
22.5°	1099.9	1104.3	1105.7	1098.0	1089.2
25°	1058.6	1066.8	1071.7	1063.9	1054.7
27.5°	1008.5	1021.1	1035.7	1029.9	1019.6
30°	952.5	971.0	995.3	990.5	983.2
32.5°	899.5	918.0	951.5	949.6	945.7
35°	851.3	863.0	902.4	907.3	903.9
37.5°	805.6	816.3	853.3	864.5	861.5
40°	757.4	769.1	798.3	818.2	819.2
42.5°	709.8	721.0	744.8	773.5	773.5
45°	659.2	670.4	692.2	723.9	727.8
47.5°	609.5	621.2	642.6	674.2	680.6
50°	560.9	571.6	593.0	623.7	633.4
52.5°	510.3	522.0	542.9	571.1	585.2
55°	461.7	469.4	492.3	519.6	534.6
57.5°	411.1	418.4	444.1	467.5	483.1
60°	362.4	371.7	391.6	415.4	433.4
62.5°	315.7	325.4	342.5	363.4	383.8
65°	270.5	277.8	294.3	315.2	333.2
67.5°	226.7	233.0	249.6	264.2	283.1
70°	182.4	190.7	202.9	217.0	229.1
72.5°	146.9	150.3	160.5	170.8	183.4
75°	108.5	114.3	122.6	128.4	135.7
77.5°	77.8	81.2	86.1	91.0	97.8
80°	52.1	53.5	57.9	58.9	64.2
82.5°	31.6	32.6	33.6	34.1	36.0
85°	17.0	17.0	17.0	16.1	16.1
87.5°	9.7	9.7	8.3	6.8	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)