

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: P554626

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-85-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: P554626
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-LD4-2HI-30-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

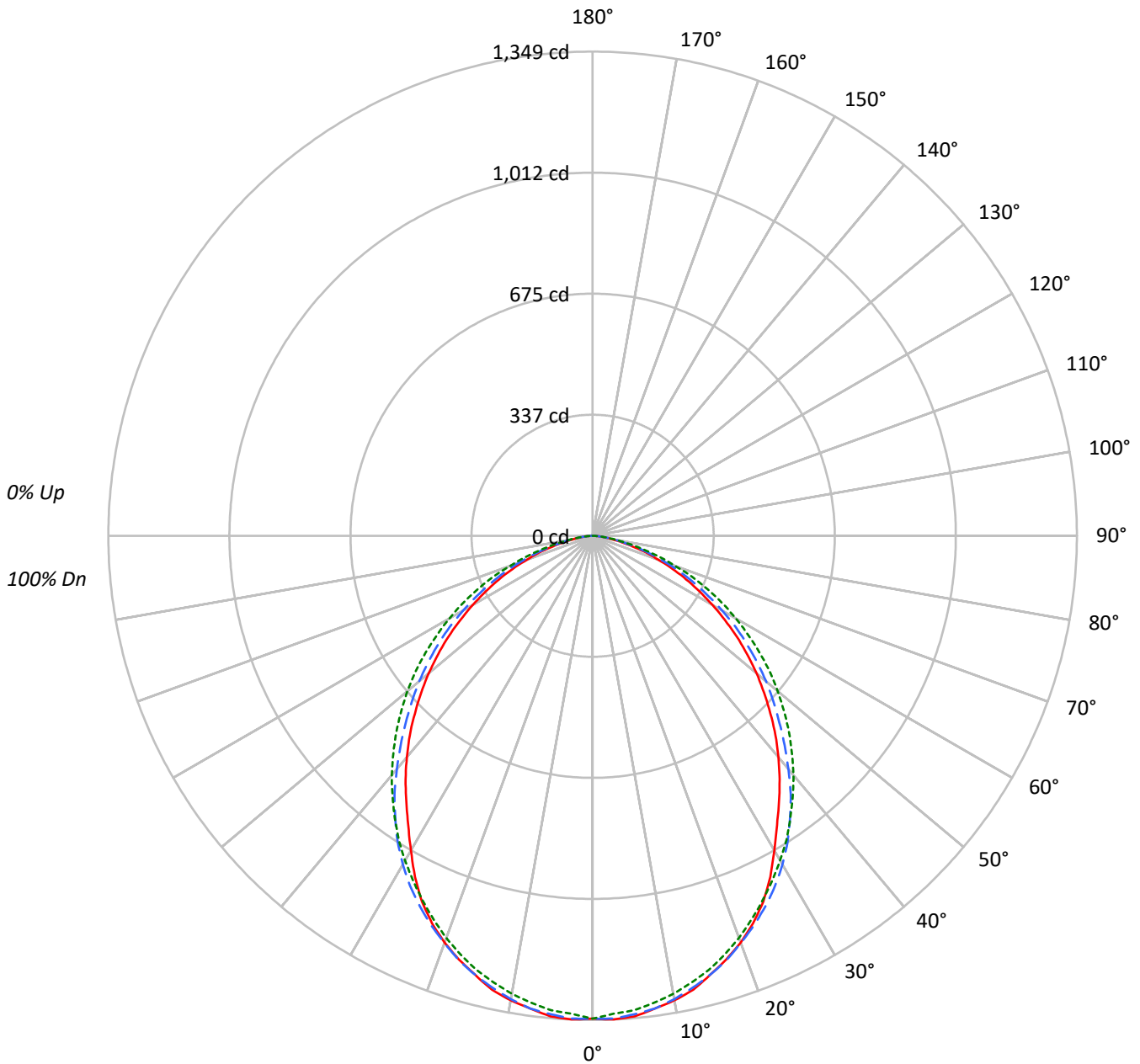
Lumens per Lamp: N/A
Luminaire Lumens: 3111.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (Ain): 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°	7241	7241	7241
5°	7260	7230	7168
10°	7183	7163	7082
15°	7056	7056	6975
20°	6907	6915	6826
25°	6679	6762	6654
30°	6289	6572	6492
35°	5943	6299	6310
40°	5654	5959	6115
45°	5331	5598	5885
50°	4990	5276	5635
55°	4602	4908	5330
60°	4145	4479	4957
65°	3660	3982	4509
70°	3050	3391	3830
75°	2398	2709	2999
80°	1714	1906	2114
85°	1118	1118	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	4.1
10°-20°	355.9	11.4
20°-30°	520.0	16.7
30°-40°	590.3	19.0
40°-50°	569.8	18.3
50°-60°	470.1	15.1
60°-70°	313.0	10.1
70°-80°	140.1	4.5
80°-90°	25.1	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°	1002.6	32.2
0°-40°	1592.9	51.2
0°-60°	2632.8	84.6
0°-90°	3111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1344	1343	1338	1331	1327	127
15°	1266	1269	1266	1261	1252	357
25°	1125	1134	1139	1130	1121	515
35°	904	917	959	964	960	567
45°	700	712	736	769	773	540
55°	490	499	523	552	568	438
65°	287	295	313	335	354	285
75°	115	122	130	136	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1349.0	1349.6	1346.5	1338.2	1333.0
5°	1343.9	1343.4	1338.2	1331.0	1326.8
7.5°	1328.9	1329.9	1328.4	1318.0	1312.3
10°	1314.4	1314.9	1310.8	1302.5	1295.8
12.5°	1295.8	1295.3	1289.6	1285.5	1274.6
15°	1266.3	1269.4	1266.3	1260.7	1251.9
17.5°	1237.9	1237.9	1240.0	1230.2	1223.4
20°	1205.9	1207.4	1207.4	1199.7	1191.9
22.5°	1168.7	1173.3	1174.9	1166.6	1157.3
25°	1124.7	1133.5	1138.7	1130.4	1120.6
27.5°	1071.5	1084.9	1100.4	1094.2	1083.4
30°	1012.0	1031.7	1057.5	1052.4	1044.6
32.5°	955.7	975.3	1011.0	1008.9	1004.8
35°	904.5	916.9	958.8	964.0	960.4
37.5°	855.9	867.3	906.6	918.5	915.4
40°	804.8	817.2	848.2	869.4	870.4
42.5°	754.1	766.0	791.3	821.8	821.8
45°	700.4	712.3	735.5	769.1	773.2
47.5°	647.6	660.1	682.8	716.4	723.1
50°	596.0	607.3	630.1	662.6	673.0
52.5°	542.2	554.6	576.8	606.8	621.8
55°	490.5	498.8	523.1	552.0	568.0
57.5°	436.8	444.5	471.9	496.7	513.3
60°	385.1	394.9	416.1	441.4	460.5
62.5°	335.5	345.8	363.9	386.1	407.8
65°	287.4	295.1	312.7	334.9	354.1
67.5°	240.9	247.6	265.2	280.7	300.8
70°	193.8	202.6	215.5	230.5	243.4
72.5°	156.1	159.7	170.6	181.4	194.9
75°	115.3	121.5	130.3	136.5	144.2
77.5°	82.7	86.3	91.5	96.7	103.9
80°	55.3	56.9	61.5	62.5	68.2
82.5°	33.6	34.6	35.7	36.2	38.2
85°	18.1	18.1	18.1	17.1	17.1
87.5°	10.3	10.3	8.8	7.2	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)