

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: P555772

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-96-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: P555772
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-LD4-3LO-40-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

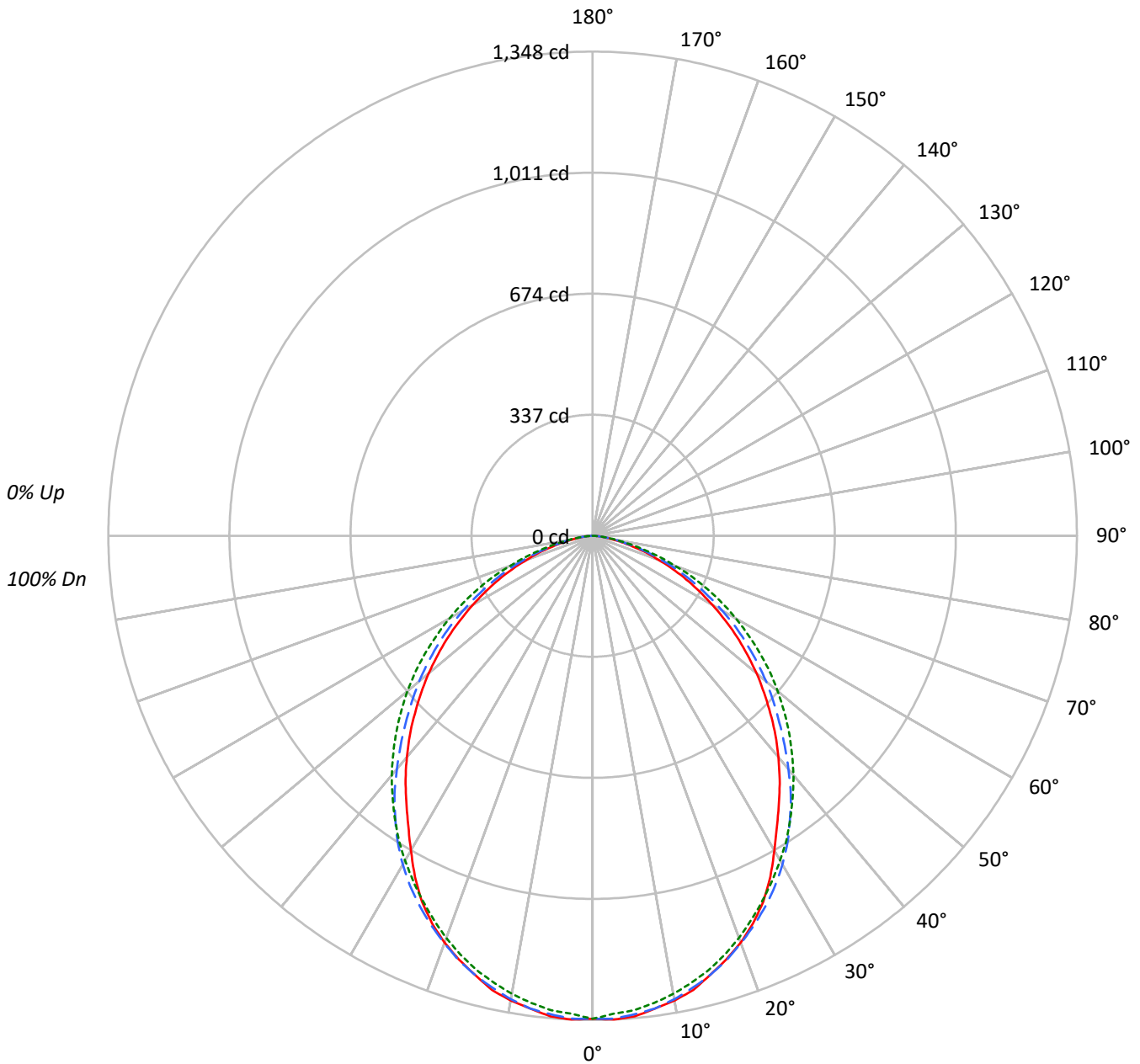
Lumens per Lamp: N/A
Luminaire Lumens: 3109.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7237	7237	7237
5°	7256	7225	7164
10°	7179	7159	7077
15°	7051	7051	6971
20°	6902	6911	6822
25°	6675	6757	6650
30°	6285	6568	6487
35°	5939	6296	6305
40°	5651	5955	6112
45°	5327	5594	5881
50°	4987	5272	5631
55°	4600	4905	5327
60°	4142	4476	4954
65°	3657	3980	4506
70°	3048	3389	3829
75°	2396	2707	2996
80°	1714	1906	2114
85°	1118	1118	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	4.1
10°-20°	355.6	11.4
20°-30°	519.7	16.7
30°-40°	589.9	19.0
40°-50°	569.5	18.3
50°-60°	469.8	15.1
60°-70°	312.8	10.1
70°-80°	140.0	4.5
80°-90°	25.0	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°	1001.9	32.2
0°-40°	1591.9	51.2
0°-60°	2631.1	84.6
0°-90°	3109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1343	1342	1337	1330	1326	127
15°	1266	1269	1266	1260	1251	357
25°	1124	1133	1138	1130	1120	515
35°	904	916	958	963	960	566
45°	700	712	735	769	773	540
55°	490	498	523	552	568	438
65°	287	295	312	335	354	285
75°	115	121	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°	1344.6	1344.6	1344.6	1344.6	1344.6
2.5°	1348.2	1348.7	1345.6	1337.3	1332.2
5°	1343.0	1342.5	1337.3	1330.1	1326.0
7.5°	1328.0	1329.1	1327.5	1317.2	1311.5
10°	1313.6	1314.1	1310.0	1301.7	1295.0
12.5°	1295.0	1294.5	1288.8	1284.6	1273.8
15°	1265.5	1268.6	1265.5	1259.8	1251.1
17.5°	1237.1	1237.1	1239.2	1229.4	1222.7
20°	1205.1	1206.6	1206.6	1198.9	1191.1
22.5°	1167.9	1172.6	1174.1	1165.8	1156.5
25°	1124.0	1132.8	1137.9	1129.7	1119.9
27.5°	1070.8	1084.2	1099.7	1093.5	1082.7
30°	1011.4	1031.0	1056.8	1051.7	1043.9
32.5°	955.1	974.7	1010.4	1008.3	1004.2
35°	904.0	916.3	958.2	963.4	959.7
37.5°	855.4	866.8	906.0	917.9	914.8
40°	804.3	816.7	847.6	868.8	869.9
42.5°	753.6	765.5	790.8	821.3	821.3
45°	699.9	711.8	735.0	768.6	772.7
47.5°	647.2	659.6	682.4	715.9	722.6
50°	595.6	606.9	629.7	662.2	672.5
52.5°	541.9	554.3	576.5	606.4	621.4
55°	490.2	498.5	522.7	551.7	567.7
57.5°	436.5	444.2	471.6	496.4	512.9
60°	384.8	394.6	415.8	441.1	460.2
62.5°	335.2	345.6	363.6	385.9	407.6
65°	287.2	294.9	312.5	334.7	353.8
67.5°	240.7	247.4	265.0	280.5	300.6
70°	193.7	202.5	215.4	230.4	243.3
72.5°	156.0	159.6	170.5	181.3	194.7
75°	115.2	121.4	130.2	136.4	144.1
77.5°	82.6	86.3	91.4	96.6	103.8
80°	55.3	56.8	61.5	62.5	68.2
82.5°	33.6	34.6	35.6	36.2	38.2
85°	18.1	18.1	18.1	17.0	17.0
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)