

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: P554729

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-88-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: P554729
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-35-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

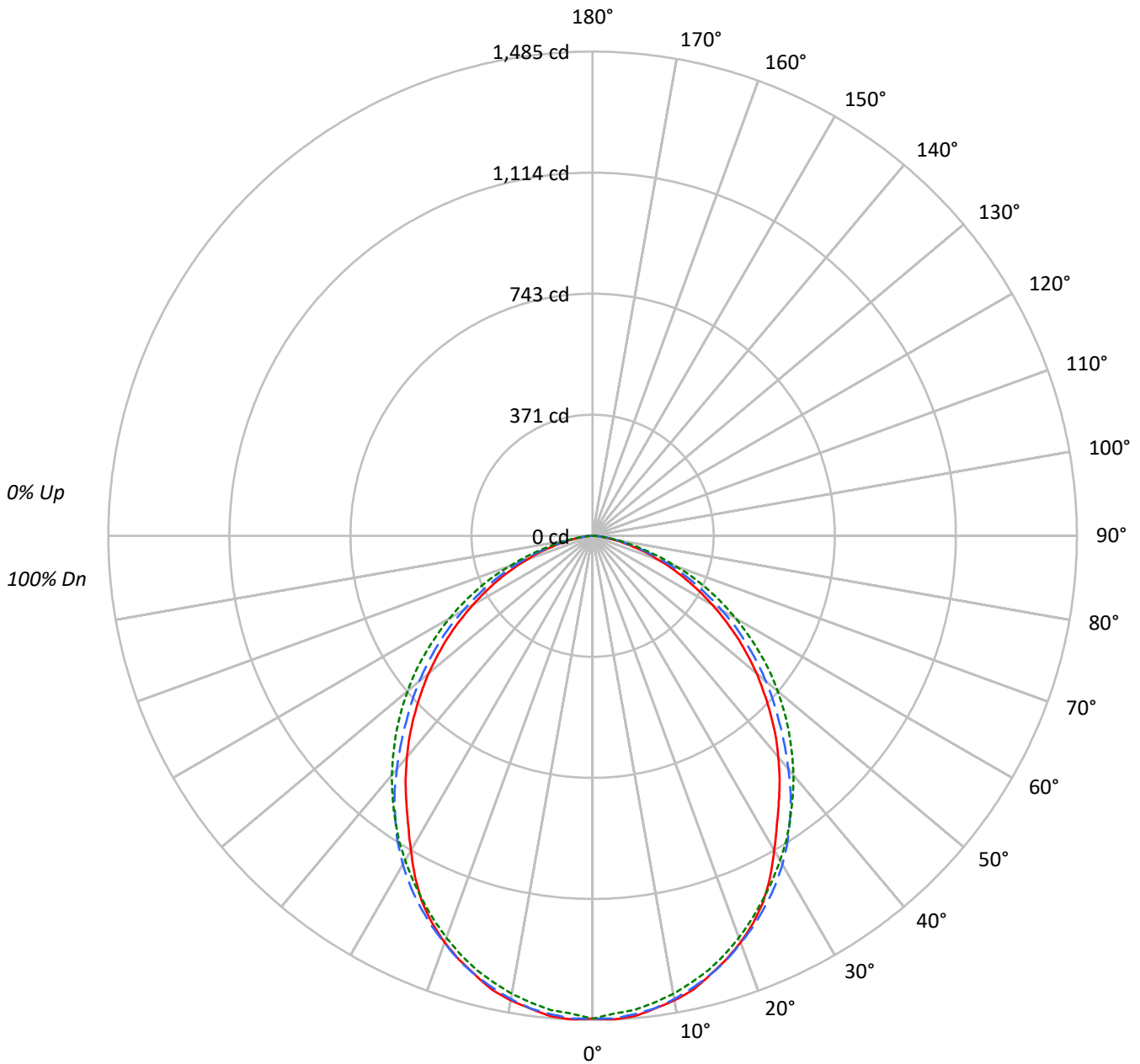
Lumens per Lamp: N/A
Luminaire Lumens: 3424.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7970	7970	7970
5°	7991	7957	7889
10°	7906	7884	7794
15°	7766	7766	7677
20°	7601	7611	7513
25°	7351	7442	7324
30°	6922	7233	7145
35°	6541	6933	6945
40°	6223	6558	6731
45°	5867	6161	6477
50°	5492	5807	6202
55°	5066	5402	5866
60°	4562	4929	5456
65°	4028	4383	4963
70°	3356	3733	4216
75°	2639	2982	3300
80°	1888	2098	2328
85°	1229	1229	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	4.1
10°-20°	391.7	11.4
20°-30°	572.4	16.7
30°-40°	649.7	19.0
40°-50°	627.2	18.3
50°-60°	517.4	15.1
60°-70°	344.5	10.1
70°-80°	154.2	4.5
80°-90°	27.6	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°	1103.5	32.2
0°-40°	1753.2	51.2
0°-60°	2897.7	84.6
0°-90°	3424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1479	1478	1473	1465	1460	140
15°	1394	1397	1394	1388	1378	393
25°	1238	1248	1253	1244	1233	567
35°	996	1009	1055	1061	1057	624
45°	771	784	810	846	851	595
55°	540	549	576	608	625	482
65°	316	325	344	369	390	314
75°	127	134	143	150	159	139
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.8	1480.8	1480.8	1480.8	1480.8
2.5°	1484.8	1485.3	1481.9	1472.8	1467.1
5°	1479.1	1478.5	1472.8	1464.9	1460.3
7.5°	1462.6	1463.7	1462.0	1450.6	1444.4
10°	1446.7	1447.2	1442.7	1433.6	1426.2
12.5°	1426.2	1425.6	1419.4	1414.8	1402.9
15°	1393.8	1397.2	1393.8	1387.5	1377.8
17.5°	1362.5	1362.5	1364.7	1353.9	1346.5
20°	1327.2	1328.9	1328.9	1320.4	1311.8
22.5°	1286.2	1291.4	1293.1	1284.0	1273.7
25°	1237.9	1247.6	1253.2	1244.1	1233.3
27.5°	1179.3	1194.1	1211.1	1204.3	1192.4
30°	1113.9	1135.5	1163.9	1158.2	1149.7
32.5°	1051.9	1073.5	1112.7	1110.5	1105.9
35°	995.5	1009.2	1055.3	1061.0	1057.0
37.5°	942.1	954.6	997.8	1010.9	1007.5
40°	885.7	899.4	933.5	956.9	958.0
42.5°	830.0	843.1	871.0	904.5	904.5
45°	770.8	783.9	809.5	846.5	851.0
47.5°	712.8	726.5	751.5	788.5	795.9
50°	655.9	668.4	693.5	729.3	740.7
52.5°	596.8	610.4	634.9	667.9	684.4
55°	539.9	549.0	575.7	607.6	625.2
57.5°	480.7	489.2	519.4	546.7	564.9
60°	423.8	434.6	457.9	485.8	506.9
62.5°	369.2	380.6	400.5	425.0	448.8
65°	316.3	324.8	344.2	368.6	389.7
67.5°	265.1	272.5	291.8	308.9	331.1
70°	213.3	223.0	237.2	253.7	267.9
72.5°	171.8	175.8	187.7	199.7	214.5
75°	126.9	133.7	143.4	150.2	158.7
77.5°	91.0	95.0	100.7	106.4	114.3
80°	60.9	62.6	67.7	68.8	75.1
82.5°	37.0	38.1	39.3	39.8	42.1
85°	19.9	19.9	19.9	18.8	18.8
87.5°	11.4	11.4	9.7	8.0	5.7
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)