

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: P554681

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-88-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: P554681
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

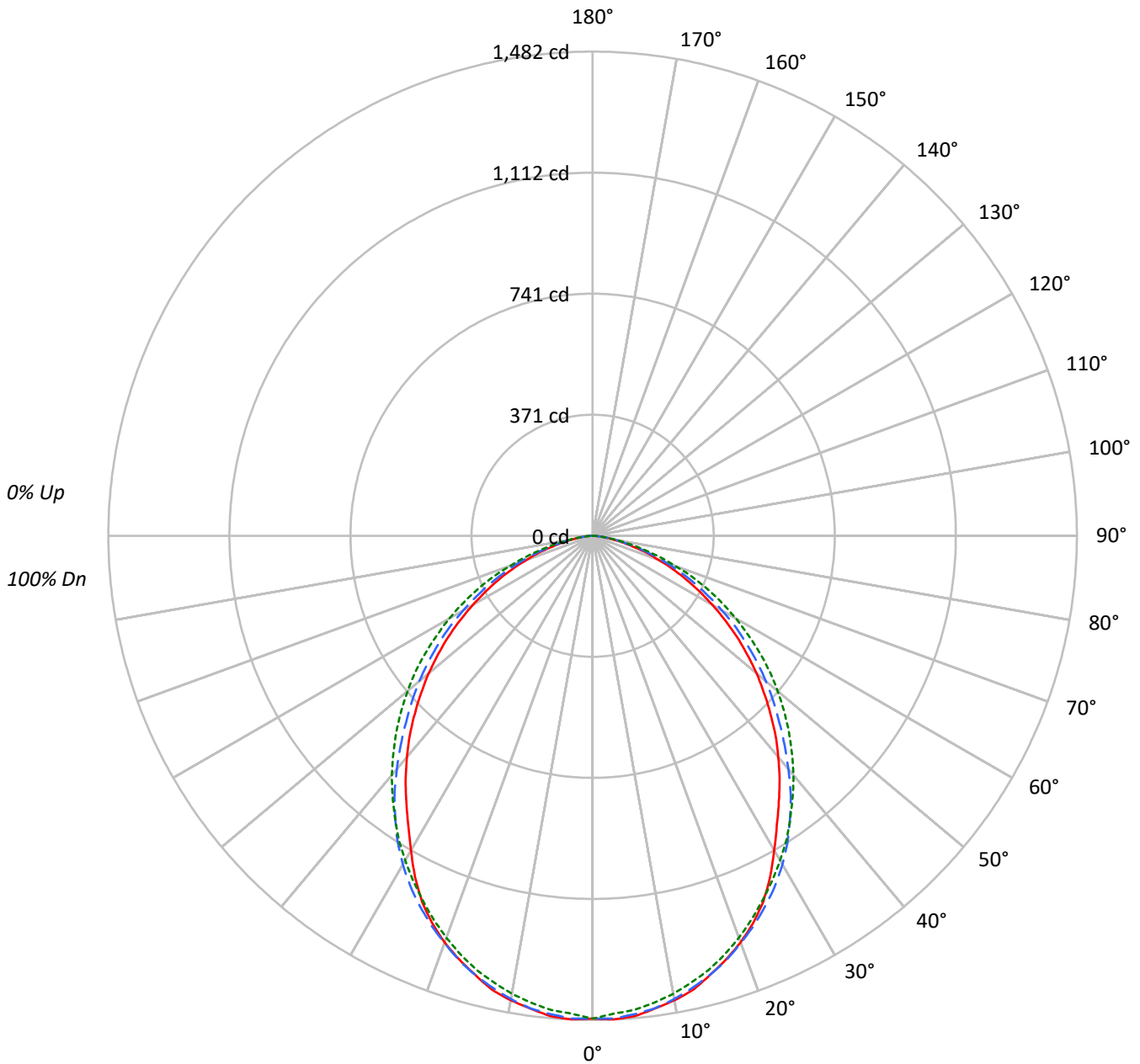
Lumens per Lamp: N/A
Luminaire Lumens: 3417.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7953	7953	7953
5°	7975	7941	7873
10°	7890	7868	7778
15°	7750	7750	7661
20°	7586	7596	7498
25°	7336	7427	7309
30°	6908	7218	7131
35°	6527	6919	6930
40°	6210	6545	6717
45°	5855	6149	6464
50°	5481	5794	6189
55°	5056	5391	5854
60°	4552	4919	5444
65°	4019	4374	4953
70°	3350	3725	4208
75°	2633	2976	3294
80°	1881	2095	2321
85°	1229	1229	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	4.1
10°-20°	390.9	11.4
20°-30°	571.2	16.7
30°-40°	648.4	19.0
40°-50°	625.9	18.3
50°-60°	516.3	15.1
60°-70°	343.8	10.1
70°-80°	153.9	4.5
80°-90°	27.5	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°	1101.2	32.2
0°-40°	1749.6	51.2
0°-60°	2891.8	84.6
0°-90°	3417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1476	1476	1470	1462	1457	140
15°	1391	1394	1391	1385	1375	392
25°	1235	1245	1251	1242	1231	566
35°	994	1007	1053	1059	1055	622
45°	769	782	808	845	849	594
55°	539	548	574	606	624	481
65°	316	324	344	368	389	313
75°	127	133	143	150	158	138
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°	1477.8	1477.8	1477.8	1477.8	1477.8
2.5°	1481.7	1482.3	1478.9	1469.8	1464.1
5°	1476.1	1475.5	1469.8	1461.9	1457.3
7.5°	1459.6	1460.7	1459.0	1447.7	1441.4
10°	1443.7	1444.3	1439.7	1430.6	1423.3
12.5°	1423.3	1422.7	1416.5	1411.9	1400.0
15°	1390.9	1394.3	1390.9	1384.7	1375.0
17.5°	1359.7	1359.7	1362.0	1351.2	1343.8
20°	1324.5	1326.2	1326.2	1317.7	1309.2
22.5°	1283.6	1288.7	1290.4	1281.3	1271.1
25°	1235.3	1245.0	1250.7	1241.6	1230.8
27.5°	1176.9	1191.6	1208.7	1201.9	1189.9
30°	1111.6	1133.2	1161.5	1155.9	1147.4
32.5°	1049.7	1071.3	1110.5	1108.2	1103.6
35°	993.5	1007.1	1053.1	1058.8	1054.8
37.5°	940.1	952.6	995.8	1008.8	1005.4
40°	883.9	897.6	931.6	954.9	956.0
42.5°	828.3	841.4	869.2	902.7	902.7
45°	769.3	782.3	807.9	844.8	849.3
47.5°	711.3	725.0	750.0	786.9	794.2
50°	654.6	667.1	692.0	727.8	739.2
52.5°	595.5	609.2	633.6	666.5	683.0
55°	538.8	547.8	574.5	606.3	623.9
57.5°	479.7	488.2	518.3	545.6	563.7
60°	422.9	433.7	457.0	484.8	505.8
62.5°	368.4	379.8	399.7	424.1	447.9
65°	315.6	324.2	343.5	367.9	388.9
67.5°	264.6	271.9	291.2	308.3	330.4
70°	212.9	222.5	236.7	253.2	267.4
72.5°	171.5	175.4	187.3	199.3	214.0
75°	126.6	133.4	143.1	149.9	158.4
77.5°	90.8	94.8	100.5	106.2	114.1
80°	60.7	62.4	67.6	68.7	74.9
82.5°	36.9	38.0	39.2	39.7	42.0
85°	19.9	19.9	19.9	18.7	18.7
87.5°	11.4	11.4	9.7	7.9	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)