

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: P554713

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-88-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: P554713
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

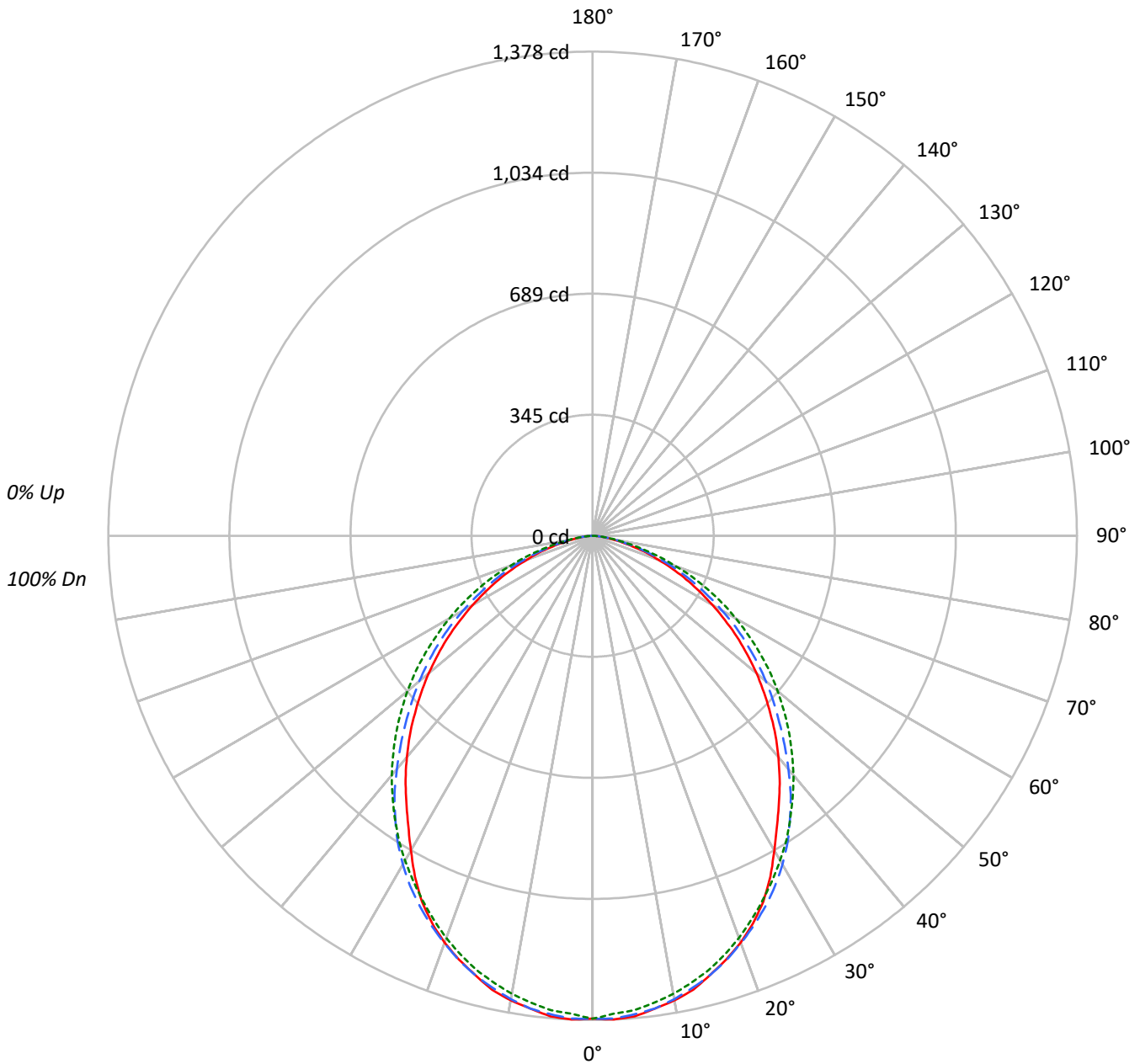
Lumens per Lamp: N/A
Luminaire Lumens: 3178.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7397	7397	7397
5°	7417	7385	7323
10°	7338	7318	7234
15°	7208	7208	7125
20°	7055	7064	6974
25°	6823	6907	6798
30°	6425	6714	6632
35°	6071	6435	6445
40°	5776	6088	6247
45°	5445	5719	6012
50°	5097	5389	5756
55°	4702	5013	5445
60°	4235	4575	5064
65°	3739	4067	4606
70°	3116	3465	3913
75°	2447	2768	3063
80°	1751	1946	2160
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	4.1
10°-20°	363.5	11.4
20°-30°	531.2	16.7
30°-40°	603.0	19.0
40°-50°	582.1	18.3
50°-60°	480.2	15.1
60°-70°	319.8	10.1
70°-80°	143.1	4.5
80°-90°	25.6	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°	1024.2	32.2
0°-40°	1627.2	51.2
0°-60°	2689.5	84.6
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1373	1372	1367	1360	1355	130
15°	1294	1297	1294	1288	1279	365
25°	1149	1158	1163	1155	1145	526
35°	924	937	980	985	981	579
45°	715	728	751	786	790	552
55°	501	510	534	564	580	447
65°	294	302	319	342	362	291
75°	118	124	133	139	147	129
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1378.1	1378.6	1375.5	1367.0	1361.7
5°	1372.8	1372.3	1367.0	1359.6	1355.4
7.5°	1357.5	1358.6	1357.0	1346.4	1340.6
10°	1342.7	1343.3	1339.0	1330.6	1323.7
12.5°	1323.7	1323.2	1317.4	1313.2	1302.1
15°	1293.6	1296.8	1293.6	1287.8	1278.8
17.5°	1264.6	1264.6	1266.7	1256.7	1249.8
20°	1231.8	1233.4	1233.4	1225.5	1217.6
22.5°	1193.8	1198.6	1200.2	1191.7	1182.2
25°	1148.9	1157.9	1163.2	1154.8	1144.7
27.5°	1094.6	1108.3	1124.1	1117.8	1106.7
30°	1033.8	1053.9	1080.3	1075.0	1067.1
32.5°	976.3	996.3	1032.8	1030.7	1026.4
35°	924.0	936.7	979.5	984.7	981.0
37.5°	874.4	886.0	926.1	938.3	935.1
40°	822.1	834.8	866.5	888.1	889.2
42.5°	770.4	782.5	808.4	839.5	839.5
45°	715.4	727.6	751.4	785.7	789.9
47.5°	661.6	674.3	697.5	731.8	738.7
50°	608.8	620.4	643.6	676.9	687.5
52.5°	553.9	566.6	589.3	619.9	635.2
55°	501.1	509.5	534.3	563.9	580.3
57.5°	446.2	454.1	482.1	507.4	524.3
60°	393.4	403.4	425.0	450.9	470.5
62.5°	342.7	353.2	371.7	394.4	416.6
65°	293.6	301.5	319.4	342.1	361.7
67.5°	246.1	252.9	270.9	286.7	307.3
70°	198.0	207.0	220.2	235.5	248.7
72.5°	159.5	163.2	174.2	185.3	199.1
75°	117.7	124.1	133.1	139.4	147.3
77.5°	84.5	88.2	93.5	98.7	106.1
80°	56.5	58.1	62.8	63.9	69.7
82.5°	34.3	35.4	36.4	37.0	39.1
85°	18.5	18.5	18.5	17.4	17.4
87.5°	10.6	10.6	9.0	7.4	5.3
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)