

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: P554777

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-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: P554777
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

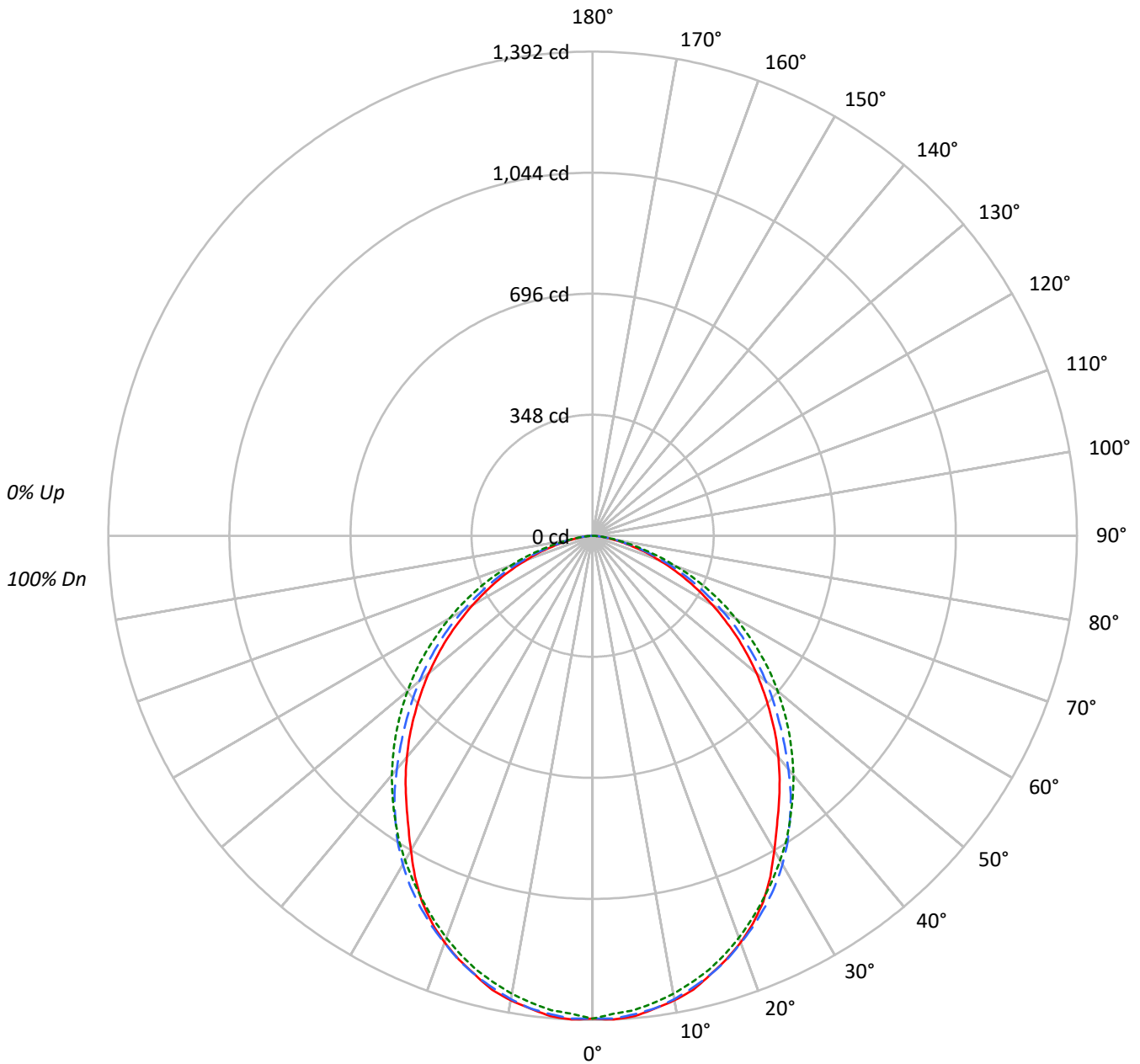
Lumens per Lamp: N/A
Luminaire Lumens: 3210.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7471	7471	7471
5°	7491	7460	7396
10°	7412	7391	7307
15°	7280	7280	7197
20°	7126	7135	7044
25°	6891	6977	6866
30°	6489	6781	6698
35°	6132	6500	6510
40°	5834	6149	6310
45°	5501	5776	6073
50°	5148	5443	5814
55°	4749	5064	5499
60°	4277	4621	5115
65°	3776	4110	4652
70°	3147	3500	3953
75°	2472	2795	3094
80°	1770	1968	2182
85°	1155	1155	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	4.1
10°-20°	367.2	11.4
20°-30°	536.6	16.7
30°-40°	609.1	19.0
40°-50°	588.0	18.3
50°-60°	485.0	15.1
60°-70°	323.0	10.1
70°-80°	144.5	4.5
80°-90°	25.9	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°	1034.5	32.2
0°-40°	1643.6	51.2
0°-60°	2716.6	84.6
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1387	1386	1381	1373	1369	131
15°	1307	1310	1307	1301	1292	368
25°	1160	1170	1175	1166	1156	531
35°	933	946	989	995	991	585
45°	723	735	759	794	798	558
55°	506	515	540	570	586	452
65°	296	304	323	346	365	294
75°	119	125	134	141	149	130
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1392.0	1392.5	1389.3	1380.8	1375.4
5°	1386.6	1386.1	1380.8	1373.3	1369.0
7.5°	1371.2	1372.2	1370.6	1360.0	1354.1
10°	1356.2	1356.8	1352.5	1344.0	1337.0
12.5°	1337.0	1336.5	1330.6	1326.4	1315.2
15°	1306.6	1309.8	1306.6	1300.8	1291.7
17.5°	1277.3	1277.3	1279.4	1269.3	1262.4
20°	1244.2	1245.8	1245.8	1237.8	1229.8
22.5°	1205.8	1210.6	1212.2	1203.7	1194.1
25°	1160.5	1169.6	1174.9	1166.4	1156.2
27.5°	1105.6	1119.4	1135.4	1129.0	1117.8
30°	1044.2	1064.5	1091.2	1085.8	1077.8
32.5°	986.1	1006.4	1043.2	1041.0	1036.8
35°	933.3	946.1	989.3	994.6	990.9
37.5°	883.2	894.9	935.5	947.7	944.5
40°	830.4	843.2	875.2	897.1	898.1
42.5°	778.1	790.4	816.5	848.0	848.0
45°	722.7	734.9	758.9	793.6	797.9
47.5°	668.3	681.1	704.5	739.2	746.1
50°	614.9	626.7	650.1	683.7	694.4
52.5°	559.5	572.3	595.2	626.1	641.6
55°	506.1	514.7	539.7	569.6	586.1
57.5°	450.7	458.7	486.9	512.5	529.6
60°	397.3	407.5	429.3	455.5	475.2
62.5°	346.1	356.8	375.5	398.4	420.8
65°	296.5	304.5	322.7	345.6	365.3
67.5°	248.5	255.5	273.6	289.6	310.4
70°	200.0	209.1	222.4	237.9	251.2
72.5°	161.1	164.8	176.0	187.2	201.1
75°	118.9	125.3	134.4	140.8	148.8
77.5°	85.3	89.1	94.4	99.7	107.2
80°	57.1	58.7	63.5	64.5	70.4
82.5°	34.7	35.7	36.8	37.3	39.5
85°	18.7	18.7	18.7	17.6	17.6
87.5°	10.7	10.7	9.1	7.5	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)