

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: P554649

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554649
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

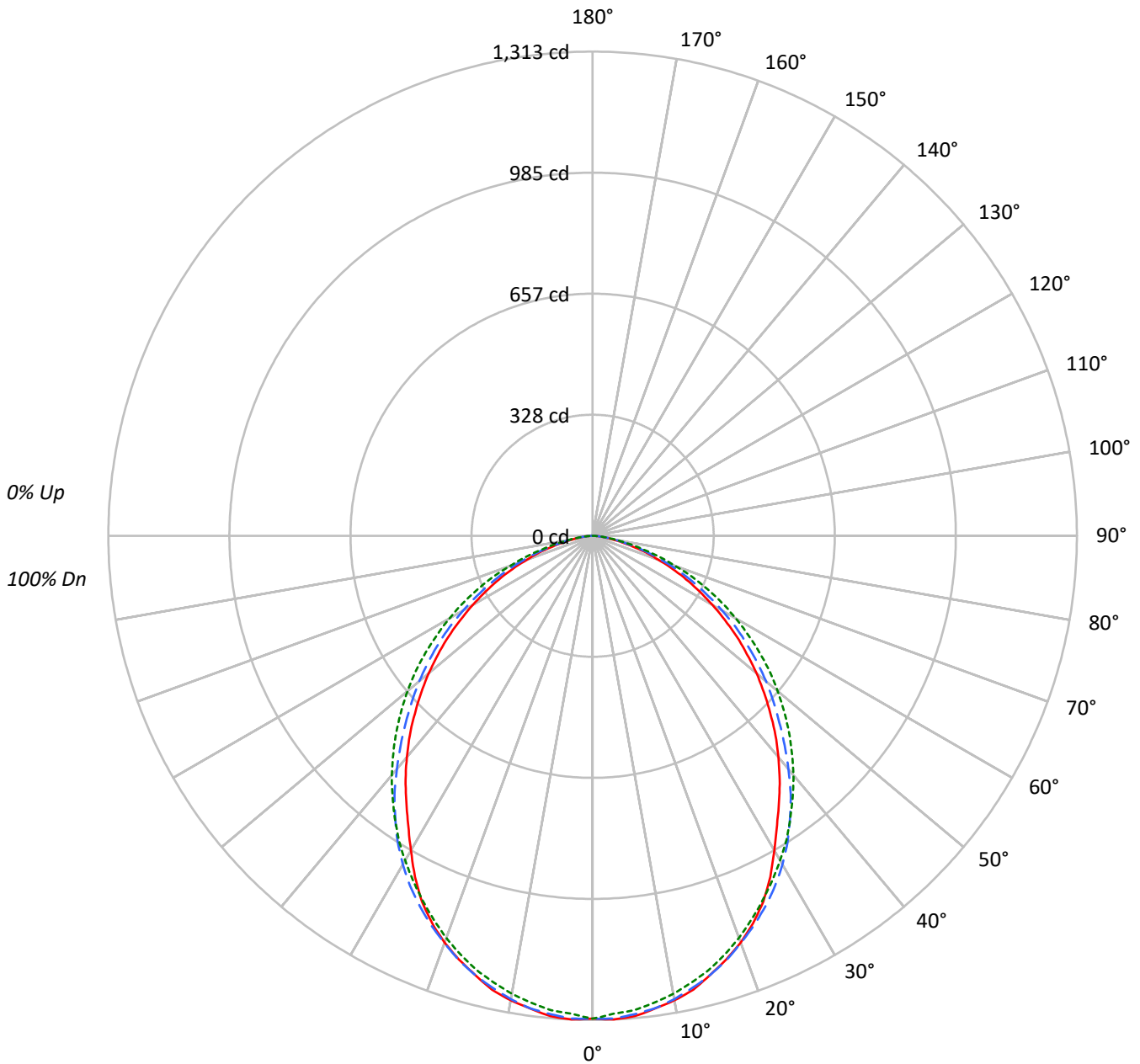
Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7048	7048	7048
5°	7066	7037	6977
10°	6991	6972	6892
15°	6868	6868	6789
20°	6722	6731	6644
25°	6501	6581	6477
30°	6121	6397	6318
35°	5784	6131	6141
40°	5503	5800	5952
45°	5189	5449	5728
50°	4857	5135	5484
55°	4480	4777	5188
60°	4034	4359	4824
65°	3562	3876	4388
70°	2969	3301	3729
75°	2333	2637	2920
80°	1667	1857	2058
85°	1087	1087	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	4.1
10°-20°	346.4	11.4
20°-30°	506.2	16.7
30°-40°	574.6	19.0
40°-50°	554.7	18.3
50°-60°	457.5	15.1
60°-70°	304.7	10.1
70°-80°	136.3	4.5
80°-90°	24.4	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°	975.8	32.2
0°-40°	1550.4	51.2
0°-60°	2562.6	84.6
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1308	1308	1302	1295	1291	124
15°	1233	1236	1233	1227	1218	347
25°	1095	1103	1108	1100	1091	501
35°	880	892	933	938	935	552
45°	682	693	716	749	753	526
55°	477	486	509	537	553	426
65°	280	287	304	326	345	277
75°	112	118	127	133	140	123
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°	1309.5	1309.5	1309.5	1309.5	1309.5
2.5°	1313.1	1313.6	1310.5	1302.5	1297.5
5°	1308.0	1307.5	1302.5	1295.4	1291.4
7.5°	1293.4	1294.4	1292.9	1282.9	1277.3
10°	1279.3	1279.8	1275.8	1267.8	1261.2
12.5°	1261.2	1260.7	1255.2	1251.2	1240.6
15°	1232.6	1235.6	1232.6	1227.0	1218.5
17.5°	1204.9	1204.9	1206.9	1197.3	1190.8
20°	1173.7	1175.2	1175.2	1167.7	1160.1
22.5°	1137.5	1142.0	1143.5	1135.5	1126.4
25°	1094.7	1103.3	1108.3	1100.2	1090.7
27.5°	1042.9	1056.0	1071.1	1065.0	1054.5
30°	985.0	1004.2	1029.3	1024.3	1016.7
32.5°	930.2	949.3	984.0	982.0	978.0
35°	880.4	892.5	933.2	938.3	934.7
37.5°	833.1	844.2	882.4	894.0	891.0
40°	783.3	795.4	825.6	846.2	847.2
42.5°	734.0	745.6	770.2	799.9	799.9
45°	681.7	693.3	715.9	748.6	752.6
47.5°	630.4	642.4	664.6	697.3	703.8
50°	580.1	591.1	613.3	645.0	655.0
52.5°	527.7	539.8	561.4	590.6	605.2
55°	477.4	485.5	509.1	537.3	552.9
57.5°	425.1	432.7	459.3	483.5	499.6
60°	374.8	384.4	405.0	429.6	448.2
62.5°	326.5	336.6	354.2	375.8	396.9
65°	279.7	287.3	304.4	326.0	344.6
67.5°	234.4	241.0	258.1	273.2	292.8
70°	188.7	197.2	209.8	224.4	237.0
72.5°	151.9	155.5	166.0	176.6	189.7
75°	112.2	118.2	126.8	132.8	140.4
77.5°	80.5	84.0	89.0	94.1	101.1
80°	53.8	55.3	59.9	60.9	66.4
82.5°	32.7	33.7	34.7	35.2	37.2
85°	17.6	17.6	17.6	16.6	16.6
87.5°	10.1	10.1	8.6	7.0	5.0
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)