

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: P554633

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-88-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: P554633
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-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

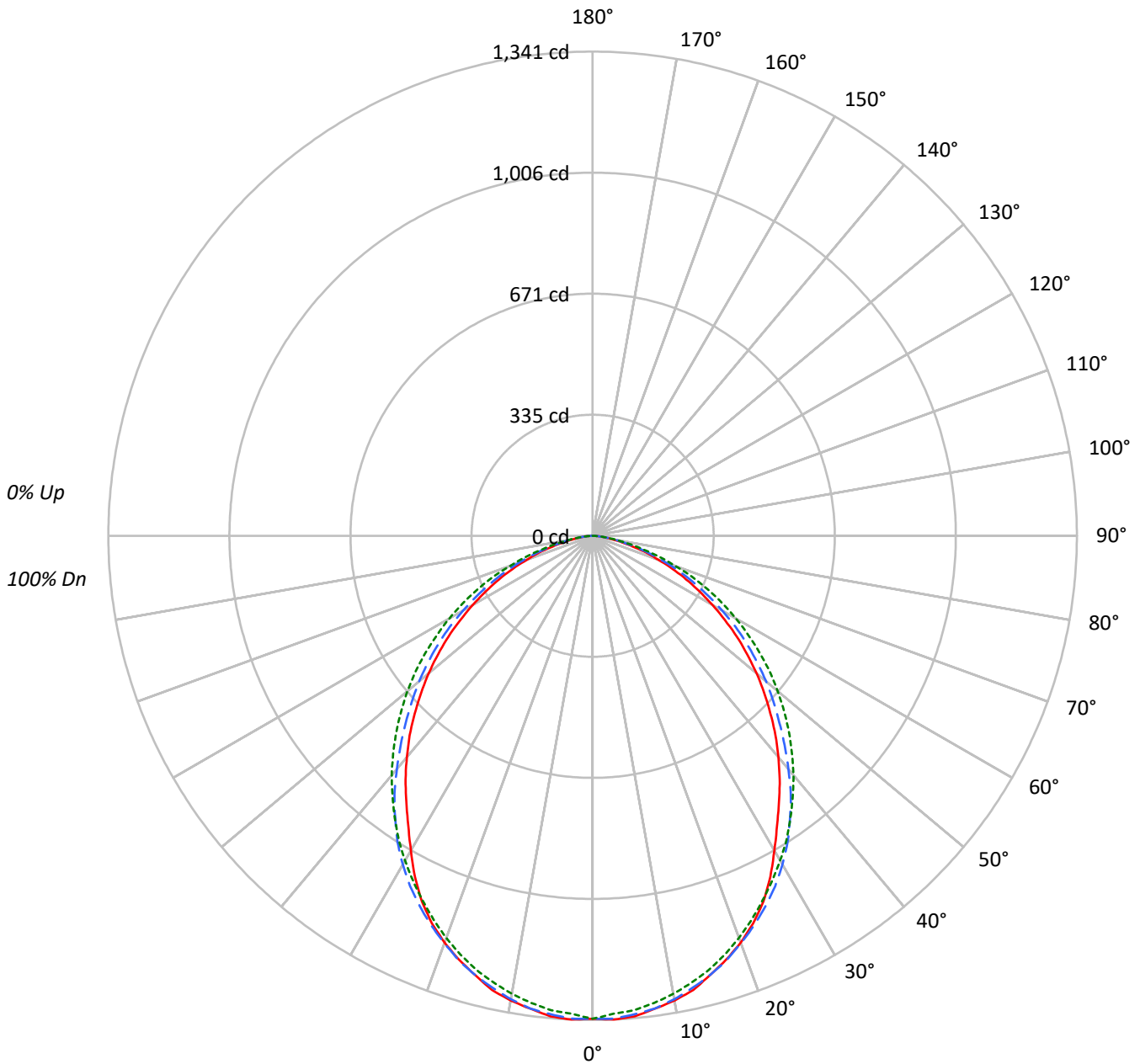
Lumens per Lamp: N/A
Luminaire Lumens: 3093.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7199	7199	7199
5°	7218	7188	7126
10°	7142	7122	7041
15°	7015	7015	6935
20°	6867	6875	6787
25°	6640	6723	6616
30°	6253	6534	6454
35°	5909	6263	6273
40°	5621	5925	6080
45°	5300	5566	5852
50°	4961	5245	5602
55°	4576	4880	5300
60°	4120	4453	4929
65°	3638	3959	4483
70°	3032	3372	3808
75°	2383	2693	2982
80°	1705	1897	2101
85°	1112	1112	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.1
10°-20°	353.8	11.4
20°-30°	517.0	16.7
30°-40°	586.9	19.0
40°-50°	566.6	18.3
50°-60°	467.4	15.1
60°-70°	311.2	10.1
70°-80°	139.3	4.5
80°-90°	24.9	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°	996.8	32.2
0°-40°	1583.7	51.2
0°-60°	2617.6	84.6
0°-90°	3093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1336	1336	1330	1323	1319	126
15°	1259	1262	1259	1253	1245	355
25°	1118	1127	1132	1124	1114	512
35°	899	912	953	958	955	563
45°	696	708	731	765	769	537
55°	488	496	520	549	565	435
65°	286	293	311	333	352	283
75°	115	121	130	136	143	125
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°	1337.6	1337.6	1337.6	1337.6	1337.6
2.5°	1341.2	1341.8	1338.7	1330.4	1325.3
5°	1336.1	1335.6	1330.4	1323.3	1319.1
7.5°	1321.2	1322.2	1320.7	1310.4	1304.8
10°	1306.8	1307.3	1303.2	1295.0	1288.3
12.5°	1288.3	1287.8	1282.1	1278.0	1267.2
15°	1259.0	1262.1	1259.0	1253.4	1244.6
17.5°	1230.8	1230.8	1232.8	1223.0	1216.4
20°	1198.9	1200.4	1200.4	1192.7	1185.0
22.5°	1161.9	1166.5	1168.1	1159.8	1150.6
25°	1118.2	1126.9	1132.1	1123.9	1114.1
27.5°	1065.3	1078.6	1094.1	1087.9	1077.1
30°	1006.2	1025.7	1051.4	1046.3	1038.6
32.5°	950.2	969.7	1005.2	1003.1	999.0
35°	899.3	911.6	953.3	958.4	954.8
37.5°	851.0	862.3	901.4	913.2	910.1
40°	800.1	812.5	843.3	864.4	865.4
42.5°	749.8	761.6	786.8	817.1	817.1
45°	696.3	708.1	731.3	764.7	768.8
47.5°	643.9	656.2	678.8	712.2	718.9
50°	592.5	603.8	626.4	658.8	669.1
52.5°	539.1	551.4	573.5	603.3	618.2
55°	487.7	495.9	520.1	548.8	564.8
57.5°	434.2	441.9	469.2	493.8	510.3
60°	382.8	392.6	413.7	438.9	457.9
62.5°	333.5	343.8	361.8	383.9	405.5
65°	285.7	293.4	310.9	333.0	352.0
67.5°	239.5	246.2	263.6	279.0	299.1
70°	192.7	201.4	214.3	229.2	242.0
72.5°	155.2	158.8	169.6	180.4	193.7
75°	114.6	120.8	129.5	135.7	143.4
77.5°	82.2	85.8	91.0	96.1	103.3
80°	55.0	56.5	61.2	62.2	67.8
82.5°	33.4	34.4	35.5	36.0	38.0
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.7	7.2	5.1
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)