

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: P554612

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-86-EDD-90**

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: P554612
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

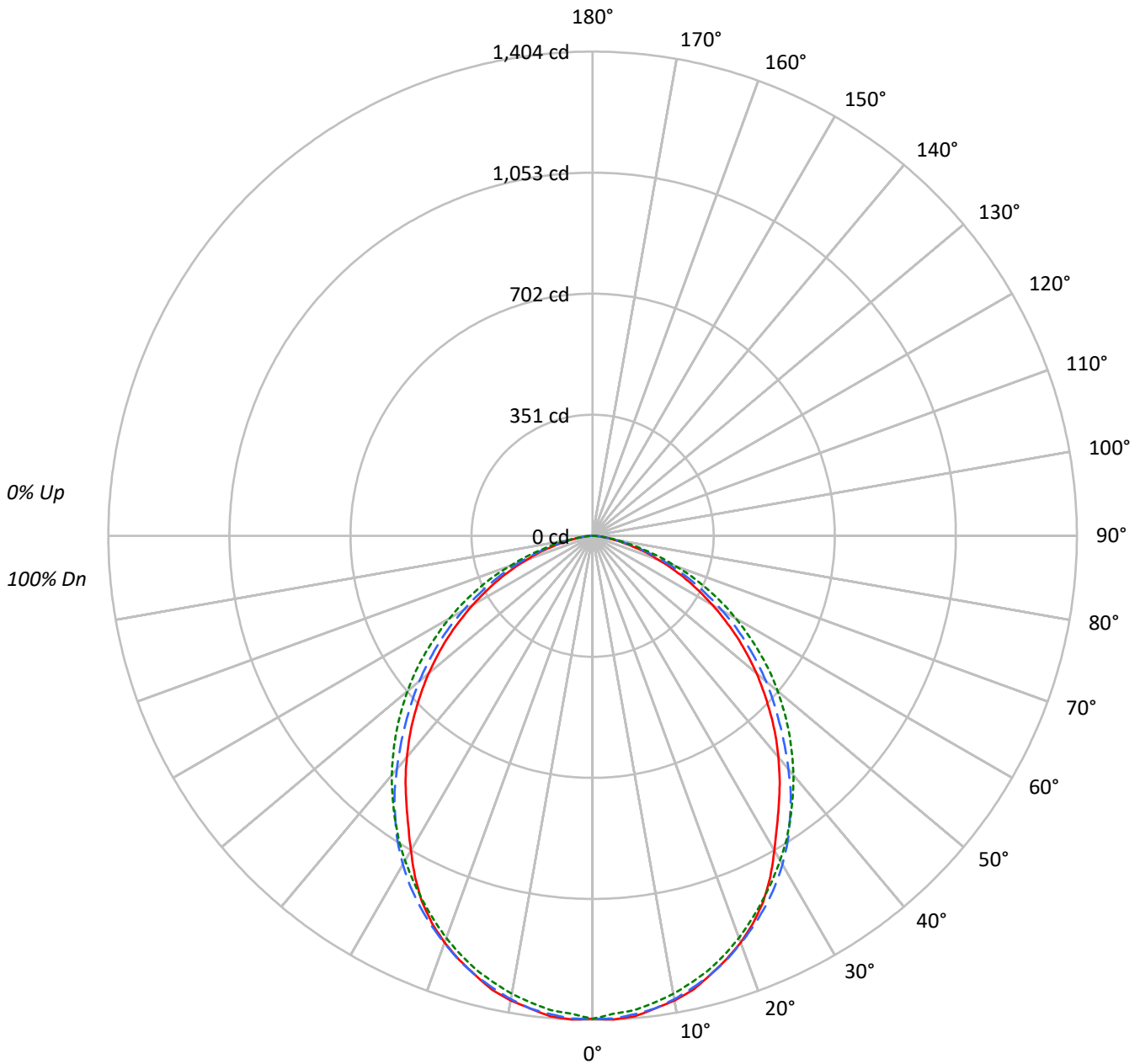
Lumens per Lamp: N/A
Luminaire Lumens: 3238.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7537	7537	7537
5°	7556	7525	7461
10°	7477	7456	7371
15°	7344	7344	7260
20°	7188	7198	7105
25°	6951	7038	6926
30°	6546	6840	6756
35°	6186	6556	6568
40°	5885	6202	6365
45°	5549	5826	6126
50°	5194	5491	5864
55°	4790	5108	5547
60°	4314	4662	5159
65°	3809	4145	4693
70°	3174	3530	3987
75°	2495	2820	3121
80°	1785	1984	2201
85°	1161	1161	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	4.1
10°-20°	370.4	11.4
20°-30°	541.3	16.7
30°-40°	614.4	19.0
40°-50°	593.1	18.3
50°-60°	489.3	15.1
60°-70°	325.8	10.1
70°-80°	145.8	4.5
80°-90°	26.1	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°	1043.5	32.2
0°-40°	1657.9	51.2
0°-60°	2740.3	84.6
0°-90°	3238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1399	1398	1393	1385	1381	132
15°	1318	1321	1318	1312	1303	372
25°	1171	1180	1185	1177	1166	536
35°	942	954	998	1003	1000	590
45°	729	741	766	800	805	562
55°	510	519	544	575	591	456
65°	299	307	326	349	368	297
75°	120	126	136	142	150	131
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°	1400.4	1400.4	1400.4	1400.4	1400.4
2.5°	1404.1	1404.7	1401.4	1392.8	1387.4
5°	1398.7	1398.2	1392.8	1385.3	1381.0
7.5°	1383.1	1384.2	1382.6	1371.8	1365.9
10°	1368.1	1368.6	1364.3	1355.7	1348.7
12.5°	1348.7	1348.2	1342.2	1337.9	1326.6
15°	1318.0	1321.3	1318.0	1312.1	1303.0
17.5°	1288.5	1288.5	1290.6	1280.4	1273.4
20°	1255.1	1256.7	1256.7	1248.6	1240.6
22.5°	1216.4	1221.2	1222.8	1214.2	1204.5
25°	1170.6	1179.8	1185.2	1176.6	1166.3
27.5°	1115.2	1129.2	1145.4	1138.9	1127.6
30°	1053.4	1073.8	1100.7	1095.3	1087.2
32.5°	994.7	1015.2	1052.3	1050.1	1045.8
35°	941.5	954.4	997.9	1003.3	999.6
37.5°	890.9	902.7	943.6	956.0	952.8
40°	837.6	850.5	882.8	904.9	906.0
42.5°	784.9	797.3	823.6	855.4	855.4
45°	729.0	741.3	765.5	800.5	804.8
47.5°	674.1	687.0	710.7	745.6	752.6
50°	620.3	632.1	655.8	689.7	700.4
52.5°	564.3	577.2	600.4	631.6	647.2
55°	510.5	519.1	544.4	574.6	591.2
57.5°	454.6	462.7	491.2	517.0	534.2
60°	400.8	411.0	433.1	459.4	479.3
62.5°	349.1	359.9	378.7	401.9	424.5
65°	299.1	307.2	325.5	348.6	368.5
67.5°	250.7	257.7	276.0	292.1	313.1
70°	201.7	210.9	224.3	239.9	253.4
72.5°	162.5	166.2	177.5	188.8	202.8
75°	120.0	126.4	135.6	142.0	150.1
77.5°	86.1	89.8	95.2	100.6	108.1
80°	57.6	59.2	64.0	65.1	71.0
82.5°	35.0	36.0	37.1	37.7	39.8
85°	18.8	18.8	18.8	17.8	17.8
87.5°	10.8	10.8	9.1	7.5	5.4
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)