

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: P554808

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-88-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: P554808
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-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

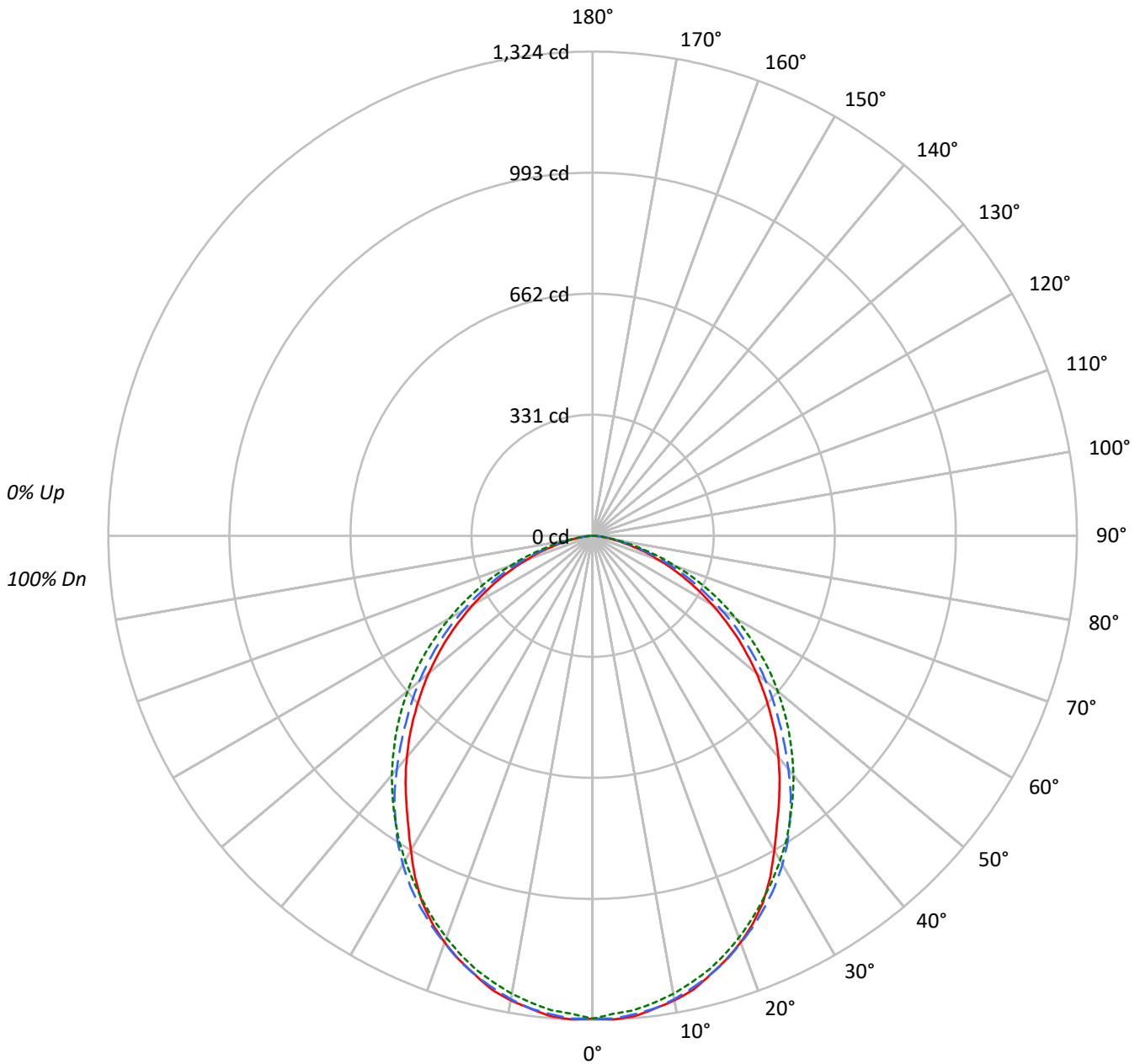
Lumens per Lamp: N/A
Luminaire Lumens: 3053.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7106	7106	7106
5°	7125	7095	7035
10°	7049	7030	6949
15°	6924	6924	6845
20°	6778	6786	6699
25°	6555	6635	6530
30°	6172	6449	6371
35°	5832	6182	6192
40°	5549	5848	6001
45°	5231	5494	5775
50°	4896	5177	5529
55°	4517	4816	5231
60°	4068	4395	4865
65°	3591	3908	4425
70°	2993	3328	3759
75°	2352	2658	2942
80°	1683	1872	2077
85°	1099	1099	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	4.1
10°-20°	349.2	11.4
20°-30°	510.3	16.7
30°-40°	579.3	19.0
40°-50°	559.2	18.3
50°-60°	461.3	15.1
60°-70°	307.2	10.1
70°-80°	137.5	4.5
80°-90°	24.6	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°	983.9	32.2
0°-40°	1563.2	51.2
0°-60°	2583.7	84.6
0°-90°	3053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1319	1318	1313	1306	1302	125
15°	1243	1246	1243	1237	1228	350
25°	1104	1112	1117	1109	1100	505
35°	888	900	941	946	942	556
45°	687	699	722	755	759	530
55°	481	490	513	542	558	430
65°	282	290	307	329	348	280
75°	113	119	128	134	142	124
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°	1320.3	1320.3	1320.3	1320.3	1320.3
2.5°	1323.9	1324.4	1321.4	1313.2	1308.2
5°	1318.8	1318.3	1313.2	1306.1	1302.1
7.5°	1304.1	1305.1	1303.6	1293.5	1287.9
10°	1289.9	1290.4	1286.4	1278.2	1271.6
12.5°	1271.6	1271.1	1265.6	1261.5	1250.9
15°	1242.7	1245.8	1242.7	1237.2	1228.5
17.5°	1214.8	1214.8	1216.9	1207.2	1200.6
20°	1183.4	1184.9	1184.9	1177.3	1169.7
22.5°	1146.9	1151.4	1153.0	1144.8	1135.7
25°	1103.8	1112.4	1117.4	1109.3	1099.7
27.5°	1051.5	1064.7	1079.9	1073.8	1063.2
30°	993.2	1012.4	1037.8	1032.7	1025.1
32.5°	937.9	957.2	992.2	990.1	986.1
35°	887.7	899.8	940.9	946.0	942.5
37.5°	840.0	851.1	889.7	901.4	898.3
40°	789.8	801.9	832.4	853.2	854.2
42.5°	740.1	751.7	776.6	806.5	806.5
45°	687.3	699.0	721.8	754.8	758.8
47.5°	635.6	647.7	670.1	703.0	709.6
50°	584.8	596.0	618.3	650.3	660.4
52.5°	532.1	544.3	566.1	595.5	610.2
55°	481.4	489.5	513.3	541.7	557.5
57.5°	428.6	436.2	463.1	487.5	503.7
60°	377.9	387.5	408.3	433.2	452.0
62.5°	329.2	339.3	357.1	378.9	400.2
65°	282.0	289.6	306.9	328.7	347.5
67.5°	236.4	243.0	260.2	275.4	295.2
70°	190.2	198.8	211.5	226.2	238.9
72.5°	153.2	156.7	167.4	178.0	191.2
75°	113.1	119.2	127.8	133.9	141.5
77.5°	81.2	84.7	89.8	94.9	102.0
80°	54.3	55.8	60.4	61.4	67.0
82.5°	33.0	34.0	35.0	35.5	37.5
85°	17.8	17.8	17.8	16.7	16.7
87.5°	10.1	10.1	8.6	7.1	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)