

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: P554828

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-96-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: P554828
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-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

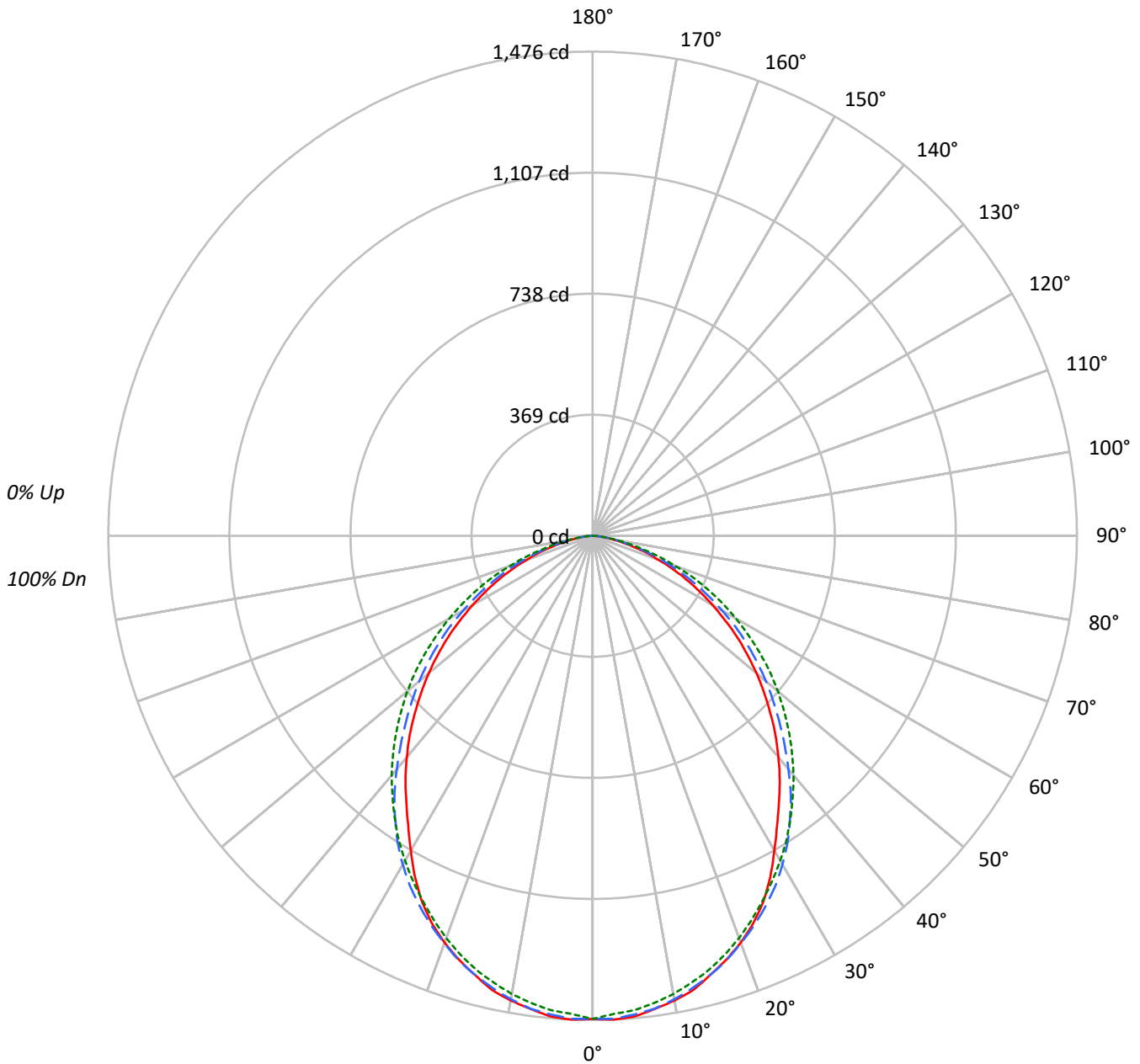
Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7925	7925	7925
5°	7947	7913	7846
10°	7862	7841	7751
15°	7723	7723	7634
20°	7559	7569	7472
25°	7310	7401	7283
30°	6884	7193	7105
35°	6504	6895	6906
40°	6188	6522	6693
45°	5835	6127	6441
50°	5462	5774	6167
55°	5038	5372	5834
60°	4537	4902	5426
65°	4005	4359	4935
70°	3338	3712	4194
75°	2624	2965	3281
80°	1875	2086	2315
85°	1223	1223	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	4.1
10°-20°	389.5	11.4
20°-30°	569.2	16.7
30°-40°	646.1	19.0
40°-50°	623.7	18.3
50°-60°	514.5	15.1
60°-70°	342.6	10.1
70°-80°	153.3	4.5
80°-90°	27.4	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°	1097.3	32.2
0°-40°	1743.4	51.2
0°-60°	2881.6	84.6
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1471	1470	1465	1457	1452	139
15°	1386	1389	1386	1380	1370	391
25°	1231	1241	1246	1237	1226	564
35°	990	1004	1049	1055	1051	620
45°	767	780	805	842	846	591
55°	537	546	572	604	622	479
65°	314	323	342	367	388	312
75°	126	133	143	149	158	138
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.6	1472.6	1472.6	1472.6	1472.6
2.5°	1476.5	1477.1	1473.7	1464.7	1459.0
5°	1470.9	1470.3	1464.7	1456.7	1452.2
7.5°	1454.5	1455.6	1453.9	1442.6	1436.4
10°	1438.6	1439.2	1434.7	1425.6	1418.3
12.5°	1418.3	1417.7	1411.5	1407.0	1395.1
15°	1386.0	1389.4	1386.0	1379.8	1370.2
17.5°	1354.9	1354.9	1357.2	1346.4	1339.1
20°	1319.8	1321.5	1321.5	1313.0	1304.6
22.5°	1279.1	1284.2	1285.9	1276.8	1266.7
25°	1231.0	1240.6	1246.3	1237.2	1226.5
27.5°	1172.7	1187.5	1204.4	1197.6	1185.8
30°	1107.7	1129.2	1157.5	1151.8	1143.3
32.5°	1046.0	1067.5	1106.6	1104.3	1099.8
35°	990.0	1003.6	1049.4	1055.1	1051.1
37.5°	936.8	949.3	992.3	1005.3	1001.9
40°	880.8	894.4	928.3	951.5	952.7
42.5°	825.4	838.4	866.1	899.5	899.5
45°	766.6	779.6	805.0	841.8	846.3
47.5°	708.8	722.4	747.3	784.1	791.4
50°	652.3	664.7	689.6	725.3	736.6
52.5°	593.4	607.0	631.3	664.2	680.6
55°	536.9	545.9	572.5	604.2	621.7
57.5°	478.0	486.5	516.5	543.7	561.8
60°	421.5	432.2	455.4	483.1	504.1
62.5°	367.2	378.5	398.3	422.6	446.4
65°	314.5	323.0	342.3	366.6	387.5
67.5°	263.6	271.0	290.2	307.2	329.3
70°	212.1	221.8	235.9	252.3	266.5
72.5°	170.8	174.8	186.7	198.6	213.3
75°	126.2	132.9	142.6	149.4	157.8
77.5°	90.5	94.5	100.1	105.8	113.7
80°	60.5	62.2	67.3	68.5	74.7
82.5°	36.8	37.9	39.0	39.6	41.9
85°	19.8	19.8	19.8	18.7	18.7
87.5°	11.3	11.3	9.6	7.9	5.7
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)