

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: P554857

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-88-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: P554857
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

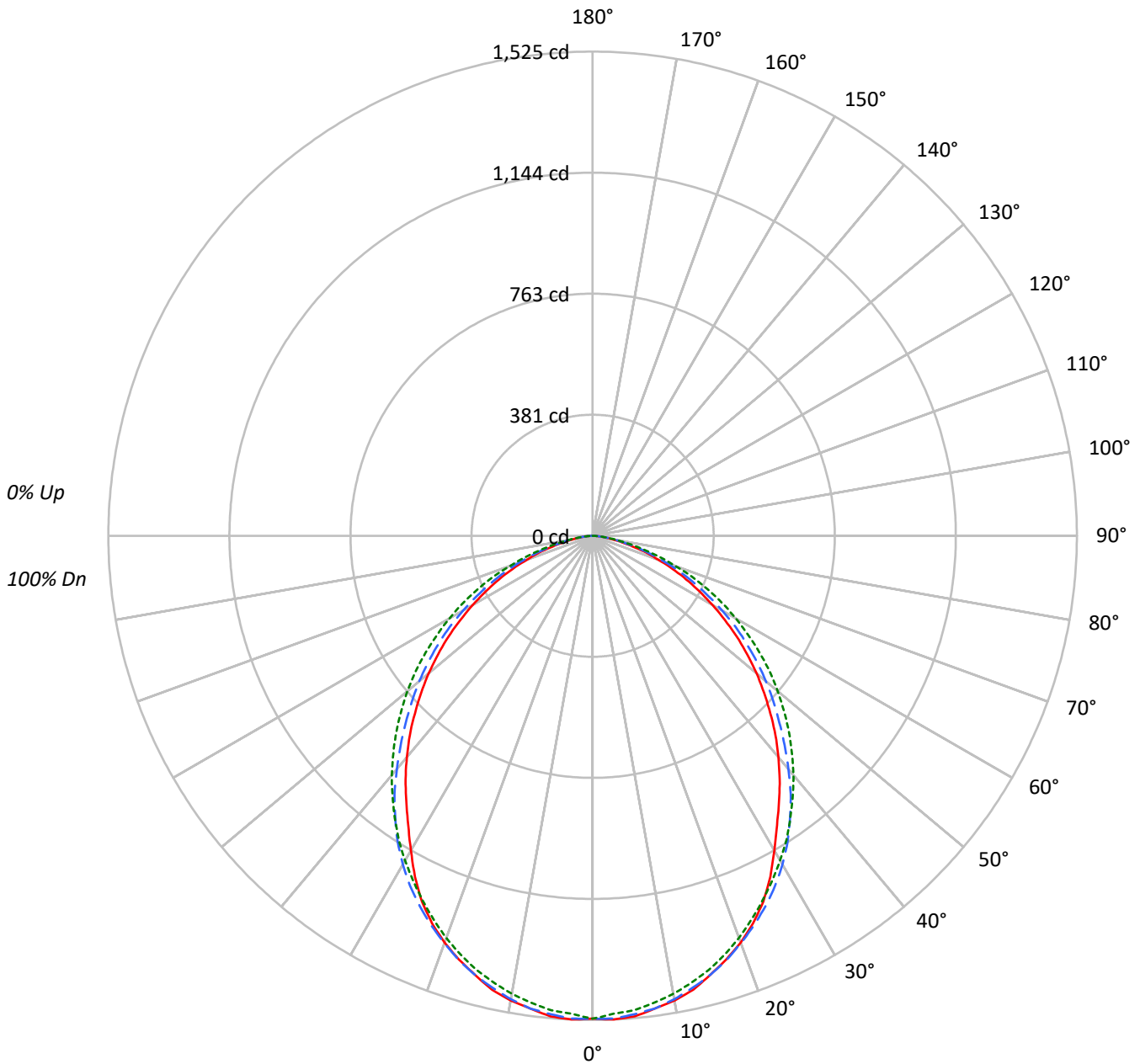
Lumens per Lamp: N/A
Luminaire Lumens: 3517.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8186	8186	8186
5°	8208	8173	8104
10°	8121	8099	8006
15°	7977	7977	7885
20°	7808	7818	7718
25°	7551	7644	7523
30°	7110	7429	7339
35°	6719	7121	7133
40°	6392	6737	6913
45°	6027	6329	6654
50°	5641	5964	6370
55°	5203	5548	6026
60°	4686	5063	5604
65°	4138	4502	5098
70°	3448	3835	4330
75°	2709	3063	3389
80°	1937	2154	2390
85°	1266	1266	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	4.1
10°-20°	402.3	11.4
20°-30°	587.9	16.7
30°-40°	667.3	19.0
40°-50°	644.2	18.3
50°-60°	531.4	15.1
60°-70°	353.9	10.1
70°-80°	158.4	4.5
80°-90°	28.3	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°	1133.4	32.2
0°-40°	1800.8	51.2
0°-60°	2976.4	84.6
0°-90°	3517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1519	1519	1513	1505	1500	144
15°	1432	1435	1432	1425	1415	404
25°	1272	1281	1287	1278	1267	582
35°	1023	1037	1084	1090	1086	641
45°	792	805	832	870	874	611
55°	554	564	591	624	642	495
65°	325	334	354	379	400	322
75°	130	137	147	154	163	142
85°	20	20	20	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.0	1521.0	1521.0	1521.0	1521.0
2.5°	1525.1	1525.7	1522.2	1512.8	1507.0
5°	1519.3	1518.7	1512.8	1504.7	1500.0
7.5°	1502.3	1503.5	1501.7	1490.0	1483.6
10°	1486.0	1486.5	1481.9	1472.5	1464.9
12.5°	1464.9	1464.3	1457.9	1453.2	1441.0
15°	1431.6	1435.1	1431.6	1425.2	1415.2
17.5°	1399.5	1399.5	1401.8	1390.7	1383.1
20°	1363.2	1365.0	1365.0	1356.2	1347.5
22.5°	1321.2	1326.4	1328.2	1318.8	1308.3
25°	1271.5	1281.4	1287.3	1277.9	1266.8
27.5°	1211.3	1226.5	1244.0	1237.0	1224.8
30°	1144.1	1166.3	1195.5	1189.7	1180.9
32.5°	1080.4	1102.6	1142.9	1140.6	1135.9
35°	1022.6	1036.6	1083.9	1089.8	1085.7
37.5°	967.7	980.5	1024.9	1038.4	1034.8
40°	909.8	923.8	958.9	982.8	984.0
42.5°	852.5	866.0	894.6	929.1	929.1
45°	791.8	805.2	831.5	869.5	874.2
47.5°	732.2	746.2	771.9	809.9	817.5
50°	673.7	686.6	712.3	749.1	760.8
52.5°	613.0	627.0	652.1	686.0	702.9
55°	554.5	563.9	591.3	624.1	642.2
57.5°	493.8	502.5	533.5	561.5	580.2
60°	435.3	446.4	470.4	499.0	520.6
62.5°	379.2	390.9	411.4	436.5	461.0
65°	324.9	333.7	353.5	378.6	400.3
67.5°	272.3	279.9	299.8	317.3	340.1
70°	219.1	229.1	243.7	260.6	275.2
72.5°	176.5	180.6	192.8	205.1	220.3
75°	130.3	137.3	147.3	154.3	163.0
77.5°	93.5	97.6	103.4	109.3	117.5
80°	62.5	64.3	69.5	70.7	77.1
82.5°	38.0	39.2	40.3	40.9	43.2
85°	20.5	20.5	20.5	19.3	19.3
87.5°	11.7	11.7	9.9	8.2	5.8
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)