

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: P555323

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-94-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: P555323
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-LD4-2STD-50-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

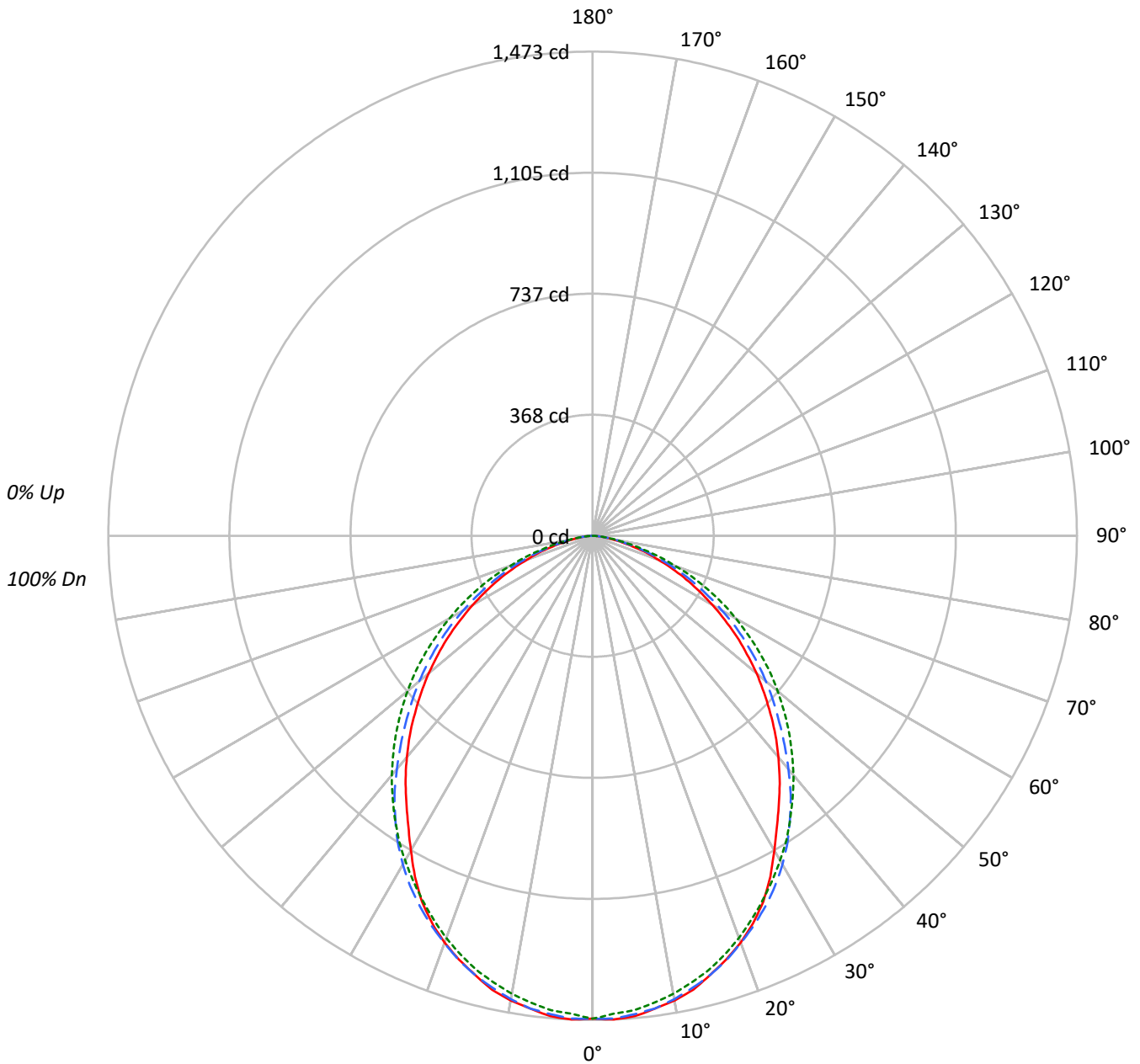
Lumens per Lamp: N/A
Luminaire Lumens: 3397.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7907	7907	7907
5°	7928	7894	7827
10°	7844	7822	7732
15°	7705	7705	7617
20°	7541	7551	7454
25°	7293	7384	7266
30°	6868	7176	7088
35°	6489	6878	6889
40°	6174	6507	6677
45°	5821	6113	6426
50°	5448	5761	6152
55°	5026	5360	5820
60°	4526	4890	5413
65°	3996	4349	4923
70°	3330	3704	4183
75°	2618	2957	3275
80°	1872	2083	2309
85°	1223	1223	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	4.1
10°-20°	388.6	11.4
20°-30°	567.9	16.7
30°-40°	644.6	19.0
40°-50°	622.2	18.3
50°-60°	513.3	15.1
60°-70°	341.8	10.1
70°-80°	153.0	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°	1094.8	32.2
0°-40°	1739.3	51.2
0°-60°	2874.9	84.6
0°-90°	3397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1467	1467	1461	1453	1449	139
15°	1383	1386	1383	1377	1367	390
25°	1228	1238	1243	1234	1224	562
35°	988	1001	1047	1053	1049	619
45°	765	778	803	840	844	590
55°	536	545	571	603	620	478
65°	314	322	342	366	387	311
75°	126	133	142	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°	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1473.1	1473.6	1470.2	1461.2	1455.6
5°	1467.4	1466.9	1461.2	1453.3	1448.8
7.5°	1451.1	1452.2	1450.5	1439.2	1433.0
10°	1435.3	1435.8	1431.3	1422.3	1414.9
12.5°	1414.9	1414.4	1408.2	1403.6	1391.8
15°	1382.8	1386.1	1382.8	1376.6	1367.0
17.5°	1351.7	1351.7	1354.0	1343.3	1335.9
20°	1316.7	1318.4	1318.4	1310.0	1301.5
22.5°	1276.1	1281.2	1282.9	1273.8	1263.7
25°	1228.1	1237.7	1243.4	1234.3	1223.6
27.5°	1170.0	1184.7	1201.6	1194.8	1183.0
30°	1105.1	1126.5	1154.7	1149.1	1140.6
32.5°	1043.6	1065.0	1104.0	1101.7	1097.2
35°	987.7	1001.2	1046.9	1052.6	1048.6
37.5°	934.6	947.1	989.9	1002.9	999.5
40°	878.8	892.3	926.2	949.3	950.4
42.5°	823.4	836.4	864.1	897.4	897.4
45°	764.8	777.7	803.1	839.8	844.3
47.5°	707.2	720.7	745.6	782.2	789.6
50°	650.7	663.2	688.0	723.6	734.8
52.5°	592.0	605.6	629.9	662.6	679.0
55°	535.6	544.6	571.2	602.8	620.3
57.5°	476.9	485.4	515.3	542.4	560.4
60°	420.5	431.2	454.3	482.0	502.9
62.5°	366.3	377.6	397.3	421.6	445.3
65°	313.8	322.3	341.5	365.7	386.6
67.5°	263.0	270.3	289.5	306.5	328.5
70°	211.6	221.2	235.4	251.7	265.8
72.5°	170.4	174.4	186.2	198.1	212.8
75°	125.9	132.6	142.2	149.0	157.5
77.5°	90.3	94.3	99.9	105.5	113.4
80°	60.4	62.1	67.2	68.3	74.5
82.5°	36.7	37.8	38.9	39.5	41.8
85°	19.8	19.8	19.8	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)