

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: P555839

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-97-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: P555839
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-LD4-3LO-50-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

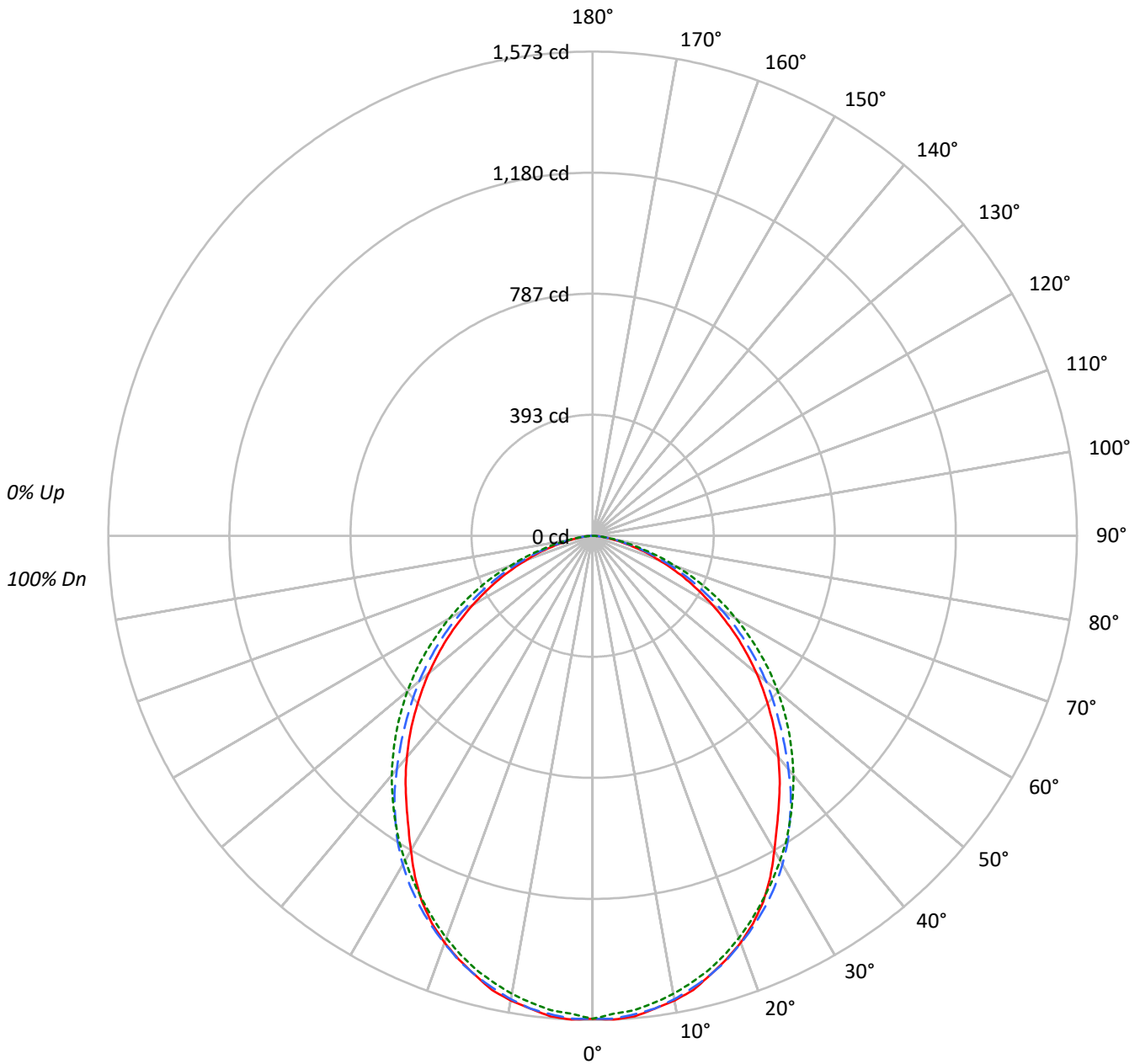
Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8444	8444	8444
5°	8467	8431	8359
10°	8377	8354	8259
15°	8228	8228	8134
20°	8054	8065	7961
25°	7789	7886	7760
30°	7334	7664	7571
35°	6931	7346	7359
40°	6594	6949	7132
45°	6217	6528	6863
50°	5819	6152	6571
55°	5367	5724	6215
60°	4834	5223	5781
65°	4267	4644	5258
70°	3556	3956	4467
75°	2795	3159	3498
80°	1999	2222	2467
85°	1303	1303	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	4.1
10°-20°	415.0	11.4
20°-30°	606.5	16.7
30°-40°	688.4	19.0
40°-50°	664.5	18.3
50°-60°	548.2	15.1
60°-70°	365.1	10.1
70°-80°	163.4	4.5
80°-90°	29.2	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°	1169.2	32.2
0°-40°	1857.6	51.2
0°-60°	3070.4	84.6
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1567	1567	1561	1552	1547	148
15°	1477	1480	1477	1470	1460	416
25°	1312	1322	1328	1318	1307	601
35°	1055	1069	1118	1124	1120	661
45°	817	831	858	897	902	630
55°	572	582	610	644	662	511
65°	335	344	365	391	413	332
75°	134	142	152	159	168	147
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.0	1569.0	1569.0	1569.0	1569.0
2.5°	1573.2	1573.8	1570.2	1560.6	1554.5
5°	1567.2	1566.6	1560.6	1552.1	1547.3
7.5°	1549.7	1550.9	1549.1	1537.1	1530.4
10°	1532.8	1533.5	1528.6	1519.0	1511.2
12.5°	1511.2	1510.5	1503.9	1499.1	1486.4
15°	1476.8	1480.4	1476.8	1470.2	1459.9
17.5°	1443.6	1443.6	1446.1	1434.6	1426.8
20°	1406.3	1408.1	1408.1	1399.0	1390.0
22.5°	1362.9	1368.3	1370.1	1360.5	1349.6
25°	1311.6	1321.9	1327.9	1318.3	1306.8
27.5°	1249.5	1265.2	1283.3	1276.1	1263.4
30°	1180.2	1203.1	1233.3	1227.2	1218.2
32.5°	1114.5	1137.4	1179.0	1176.6	1171.8
35°	1054.9	1069.3	1118.1	1124.2	1120.0
37.5°	998.2	1011.5	1057.3	1071.1	1067.5
40°	938.5	953.0	989.1	1013.9	1015.1
42.5°	879.4	893.3	922.8	958.4	958.4
45°	816.8	830.6	857.7	896.9	901.7
47.5°	755.3	769.7	796.3	835.4	843.3
50°	695.0	708.3	734.8	772.8	784.8
52.5°	632.3	646.8	672.7	707.7	725.1
55°	572.0	581.7	610.0	643.8	662.4
57.5°	509.3	518.4	550.3	579.3	598.6
60°	449.1	460.5	485.2	514.8	537.1
62.5°	391.2	403.3	424.4	450.3	475.6
65°	335.1	344.2	364.7	390.6	412.9
67.5°	280.9	288.7	309.2	327.3	350.8
70°	226.0	236.3	251.4	268.8	283.9
72.5°	182.0	186.3	198.9	211.6	227.2
75°	134.4	141.7	151.9	159.1	168.2
77.5°	96.4	100.7	106.7	112.7	121.2
80°	64.5	66.3	71.7	72.9	79.6
82.5°	39.2	40.4	41.6	42.2	44.6
85°	21.1	21.1	21.1	19.9	19.9
87.5°	12.1	12.1	10.2	8.4	6.0
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)