

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: P555245

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-96-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: P555245
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-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

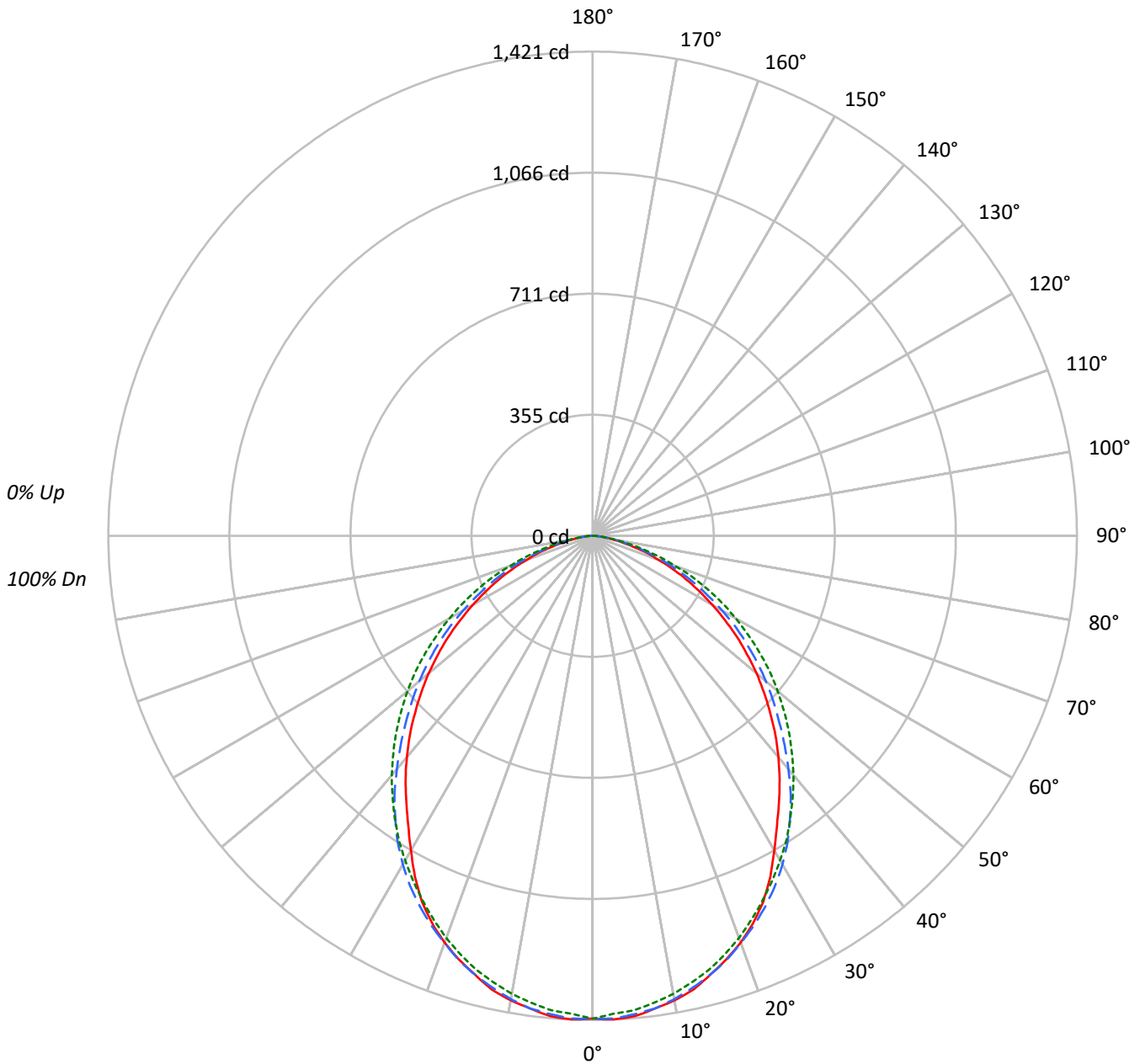
Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7627	7627	7627
5°	7648	7615	7551
10°	7567	7546	7460
15°	7432	7432	7348
20°	7275	7284	7191
25°	7035	7122	7010
30°	6625	6923	6838
35°	6260	6636	6646
40°	5956	6277	6442
45°	5615	5897	6199
50°	5256	5557	5936
55°	4848	5170	5615
60°	4366	4718	5222
65°	3855	4195	4750
70°	3213	3572	4035
75°	2524	2853	3159
80°	1807	2008	2228
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	4.1
10°-20°	374.9	11.4
20°-30°	547.8	16.7
30°-40°	621.8	19.0
40°-50°	600.3	18.3
50°-60°	495.2	15.1
60°-70°	329.7	10.1
70°-80°	147.5	4.5
80°-90°	26.4	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°	1056.1	32.2
0°-40°	1677.9	51.2
0°-60°	2773.3	84.6
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1416	1415	1410	1402	1398	134
15°	1334	1337	1334	1328	1319	376
25°	1185	1194	1199	1191	1180	543
35°	953	966	1010	1015	1012	597
45°	738	750	775	810	814	569
55°	517	525	551	582	598	461
65°	303	311	329	353	373	300
75°	121	128	137	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1421.0	1421.6	1418.3	1409.6	1404.2
5°	1415.6	1415.0	1409.6	1402.0	1397.6
7.5°	1399.8	1400.9	1399.3	1388.4	1382.4
10°	1384.6	1385.1	1380.7	1372.0	1365.0
12.5°	1365.0	1364.4	1358.4	1354.1	1342.6
15°	1333.9	1337.2	1333.9	1327.9	1318.7
17.5°	1304.0	1304.0	1306.1	1295.8	1288.7
20°	1270.2	1271.8	1271.8	1263.7	1255.5
22.5°	1231.0	1235.9	1237.5	1228.8	1219.0
25°	1184.7	1194.0	1199.4	1190.7	1180.4
27.5°	1128.7	1142.8	1159.1	1152.6	1141.2
30°	1066.0	1086.7	1114.0	1108.5	1100.3
32.5°	1006.7	1027.4	1065.0	1062.8	1058.4
35°	952.8	965.9	1010.0	1015.4	1011.6
37.5°	901.6	913.6	955.0	967.5	964.2
40°	847.7	860.8	893.5	915.8	916.9
42.5°	794.4	806.9	833.6	865.7	865.7
45°	737.7	750.3	774.8	810.1	814.5
47.5°	682.2	695.3	719.2	754.6	761.7
50°	627.8	639.7	663.7	698.0	708.9
52.5°	571.1	584.2	607.6	639.2	655.0
55°	516.7	525.4	551.0	581.5	598.4
57.5°	460.1	468.2	497.1	523.2	540.6
60°	405.6	416.0	438.3	465.0	485.1
62.5°	353.4	364.2	383.3	406.7	429.6
65°	302.7	310.9	329.4	352.8	373.0
67.5°	253.7	260.8	279.3	295.6	316.9
70°	204.2	213.4	227.0	242.8	256.4
72.5°	164.4	168.2	179.7	191.1	205.3
75°	121.4	127.9	137.2	143.7	151.9
77.5°	87.1	90.9	96.4	101.8	109.4
80°	58.3	59.9	64.8	65.9	71.9
82.5°	35.4	36.5	37.6	38.1	40.3
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.6	5.4
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)