

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: P555696

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-84-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: P555696
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-35-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

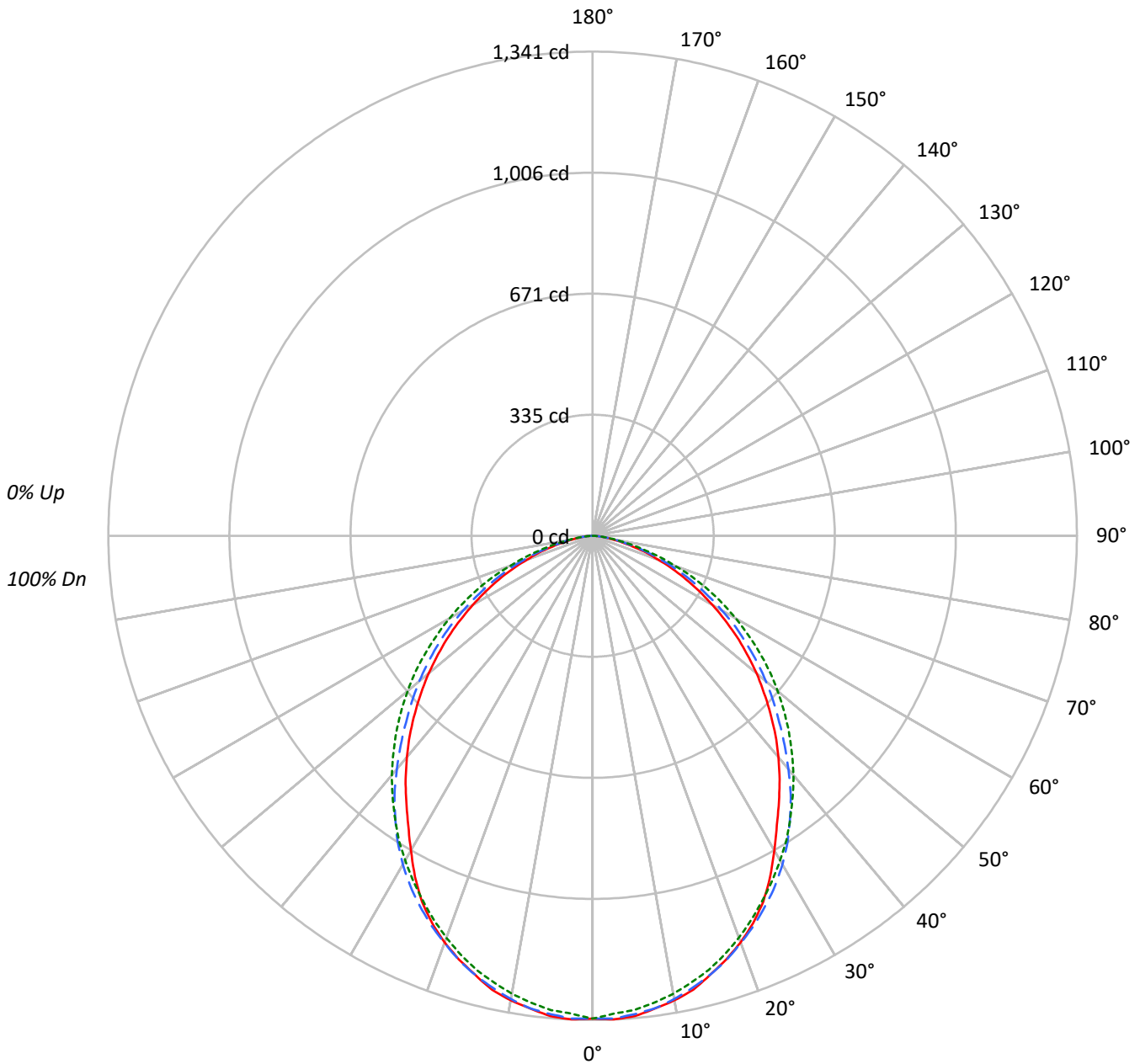
Lumens per Lamp: N/A
Luminaire Lumens: 3092.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	7197	7197	7197
5°	7216	7185	7124
10°	7139	7120	7038
15°	7013	7013	6932
20°	6864	6873	6785
25°	6638	6720	6614
30°	6251	6532	6452
35°	5907	6261	6271
40°	5620	5923	6078
45°	5298	5564	5849
50°	4959	5243	5601
55°	4574	4878	5298
60°	4119	4451	4927
65°	3637	3958	4481
70°	3031	3371	3808
75°	2383	2693	2980
80°	1705	1894	2101
85°	1112	1112	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.1
10°-20°	353.7	11.4
20°-30°	516.9	16.7
30°-40°	586.7	19.0
40°-50°	566.4	18.3
50°-60°	467.2	15.1
60°-70°	311.1	10.1
70°-80°	139.2	4.5
80°-90°	24.9	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°	996.5	32.2
0°-40°	1583.2	51.2
0°-60°	2616.7	84.6
0°-90°	3092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1336	1335	1330	1323	1319	126
15°	1259	1262	1259	1253	1244	355
25°	1118	1127	1132	1124	1114	512
35°	899	911	953	958	954	563
45°	696	708	731	764	768	537
55°	488	496	520	549	565	435
65°	286	293	311	333	352	283
75°	115	121	130	136	143	125
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1340.8	1341.3	1338.2	1330.0	1324.9
5°	1335.7	1335.2	1330.0	1322.8	1318.7
7.5°	1320.8	1321.8	1320.3	1310.0	1304.3
10°	1306.4	1306.9	1302.8	1294.6	1287.9
12.5°	1287.9	1287.4	1281.7	1277.6	1266.8
15°	1258.6	1261.7	1258.6	1253.0	1244.2
17.5°	1230.4	1230.4	1232.4	1222.7	1216.0
20°	1198.5	1200.0	1200.0	1192.3	1184.6
22.5°	1161.5	1166.1	1167.7	1159.5	1150.2
25°	1117.9	1126.6	1131.7	1123.5	1113.7
27.5°	1064.9	1078.3	1093.7	1087.5	1076.8
30°	1005.9	1025.4	1051.1	1045.9	1038.2
32.5°	949.9	969.4	1004.8	1002.8	998.7
35°	899.0	911.3	952.9	958.1	954.5
37.5°	850.7	862.0	901.1	912.9	909.8
40°	799.9	812.2	843.0	864.1	865.1
42.5°	749.5	761.3	786.5	816.8	816.8
45°	696.1	707.9	731.0	764.4	768.5
47.5°	643.7	656.0	678.6	712.0	718.7
50°	592.3	603.6	626.2	658.6	668.9
52.5°	538.9	551.2	573.3	603.1	618.0
55°	487.5	495.7	519.9	548.7	564.6
57.5°	434.1	441.8	469.0	493.7	510.1
60°	382.7	392.5	413.5	438.7	457.7
62.5°	333.4	343.7	361.7	383.7	405.3
65°	285.6	293.3	310.8	332.9	351.9
67.5°	239.4	246.1	263.5	278.9	299.0
70°	192.6	201.4	214.2	229.1	242.0
72.5°	155.1	158.7	169.5	180.3	193.7
75°	114.6	120.7	129.5	135.6	143.3
77.5°	82.2	85.8	90.9	96.1	103.3
80°	55.0	56.5	61.1	62.2	67.8
82.5°	33.4	34.4	35.4	36.0	38.0
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.7	7.2	5.1
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)