

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: P555763

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-85-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: P555763
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-40-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

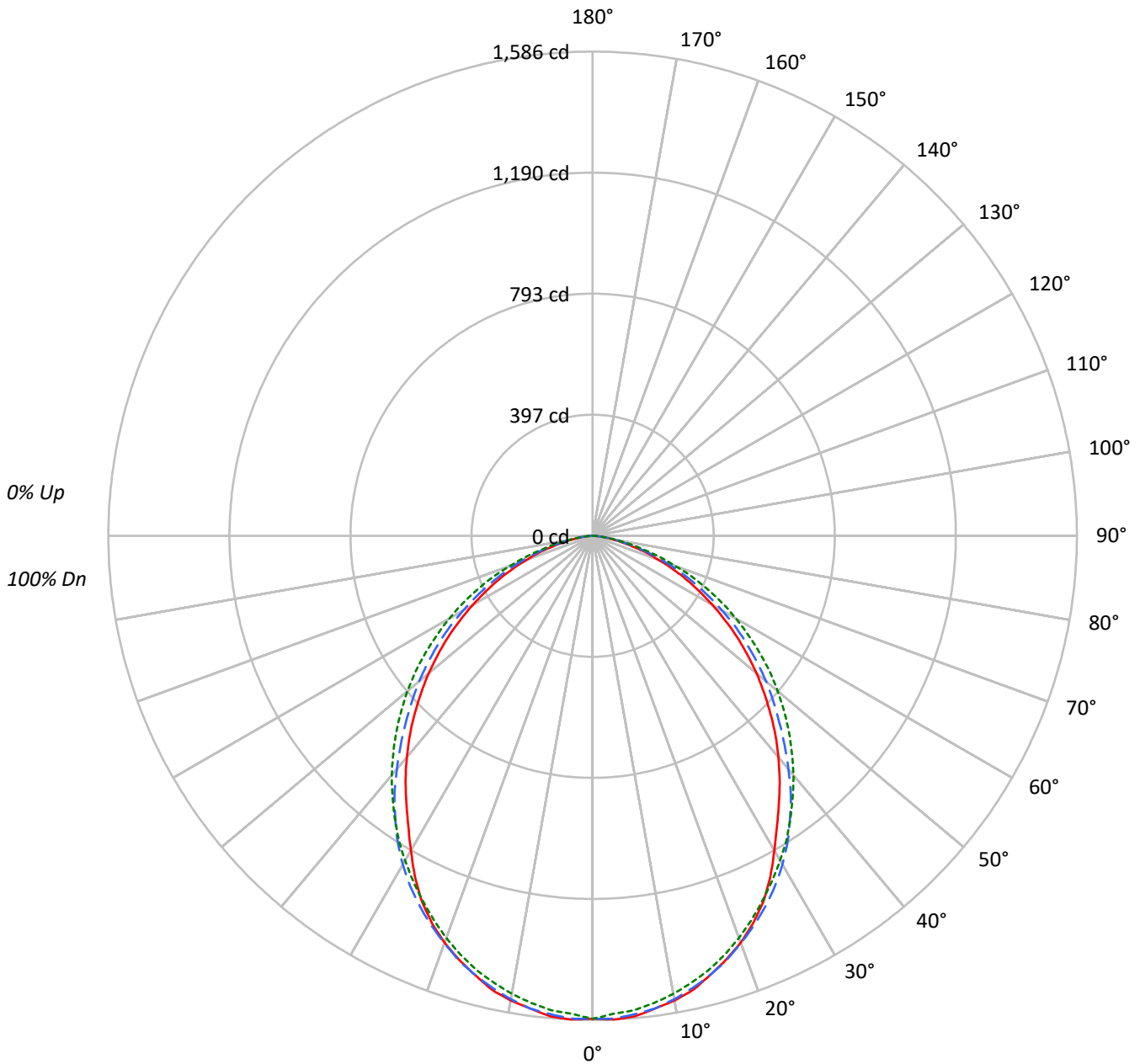
Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8514	8514	8514
5°	8537	8501	8428
10°	8446	8423	8326
15°	8296	8296	8202
20°	8121	8131	8027
25°	7853	7951	7824
30°	7395	7728	7633
35°	6988	7407	7419
40°	6648	7007	7191
45°	6268	6582	6920
50°	5867	6203	6625
55°	5412	5771	6267
60°	4874	5266	5829
65°	4303	4683	5301
70°	3586	3987	4505
75°	2818	3186	3527
80°	2015	2241	2486
85°	1315	1315	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	4.1
10°-20°	418.4	11.4
20°-30°	611.5	16.7
30°-40°	694.1	19.0
40°-50°	670.0	18.3
50°-60°	552.7	15.1
60°-70°	368.1	10.1
70°-80°	164.7	4.5
80°-90°	29.5	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°	1178.9	32.2
0°-40°	1873.0	51.2
0°-60°	3095.7	84.6
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1580	1580	1574	1565	1560	150
15°	1489	1493	1489	1482	1472	420
25°	1322	1333	1339	1329	1318	606
35°	1064	1078	1127	1134	1129	666
45°	824	838	865	904	909	635
55°	577	586	615	649	668	515
65°	338	347	368	394	416	335
75°	136	143	153	160	170	148
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	1586.2	1586.9	1583.2	1573.5	1567.4
5°	1580.2	1579.6	1573.5	1565.0	1560.1
7.5°	1562.5	1563.8	1561.9	1549.8	1543.1
10°	1545.5	1546.1	1541.3	1531.5	1523.6
12.5°	1523.6	1523.0	1516.4	1511.5	1498.7
15°	1489.0	1492.7	1489.0	1482.3	1472.0
17.5°	1455.6	1455.6	1458.0	1446.5	1438.6
20°	1417.9	1419.7	1419.7	1410.6	1401.5
22.5°	1374.1	1379.6	1381.4	1371.7	1360.8
25°	1322.5	1332.8	1338.9	1329.2	1317.6
27.5°	1259.9	1275.7	1293.9	1286.6	1273.9
30°	1190.0	1213.1	1243.5	1237.4	1228.3
32.5°	1123.7	1146.8	1188.8	1186.3	1181.5
35°	1063.6	1078.2	1127.4	1133.5	1129.2
37.5°	1006.4	1019.8	1066.0	1080.0	1076.3
40°	946.3	960.9	997.3	1022.2	1023.5
42.5°	886.7	900.7	930.5	966.3	966.3
45°	823.5	837.5	864.8	904.3	909.2
47.5°	761.5	776.1	802.8	842.4	850.3
50°	700.7	714.1	740.9	779.1	791.3
52.5°	637.5	652.1	678.3	713.5	731.1
55°	576.8	586.5	615.0	649.1	667.9
57.5°	513.6	522.7	554.9	584.1	603.5
60°	452.8	464.3	489.2	519.0	541.5
62.5°	394.4	406.6	427.9	454.0	479.5
65°	337.9	347.0	367.7	393.8	416.3
67.5°	283.2	291.1	311.8	330.0	353.7
70°	227.9	238.2	253.4	271.1	286.3
72.5°	183.5	187.8	200.6	213.3	229.1
75°	135.5	142.8	153.2	160.4	169.6
77.5°	97.2	101.5	107.6	113.7	122.2
80°	65.0	66.9	72.3	73.5	80.2
82.5°	39.5	40.7	41.9	42.5	45.0
85°	21.3	21.3	21.3	20.1	20.1
87.5°	12.2	12.2	10.3	8.5	6.1
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)