

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: P555767

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-87-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: P555767
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

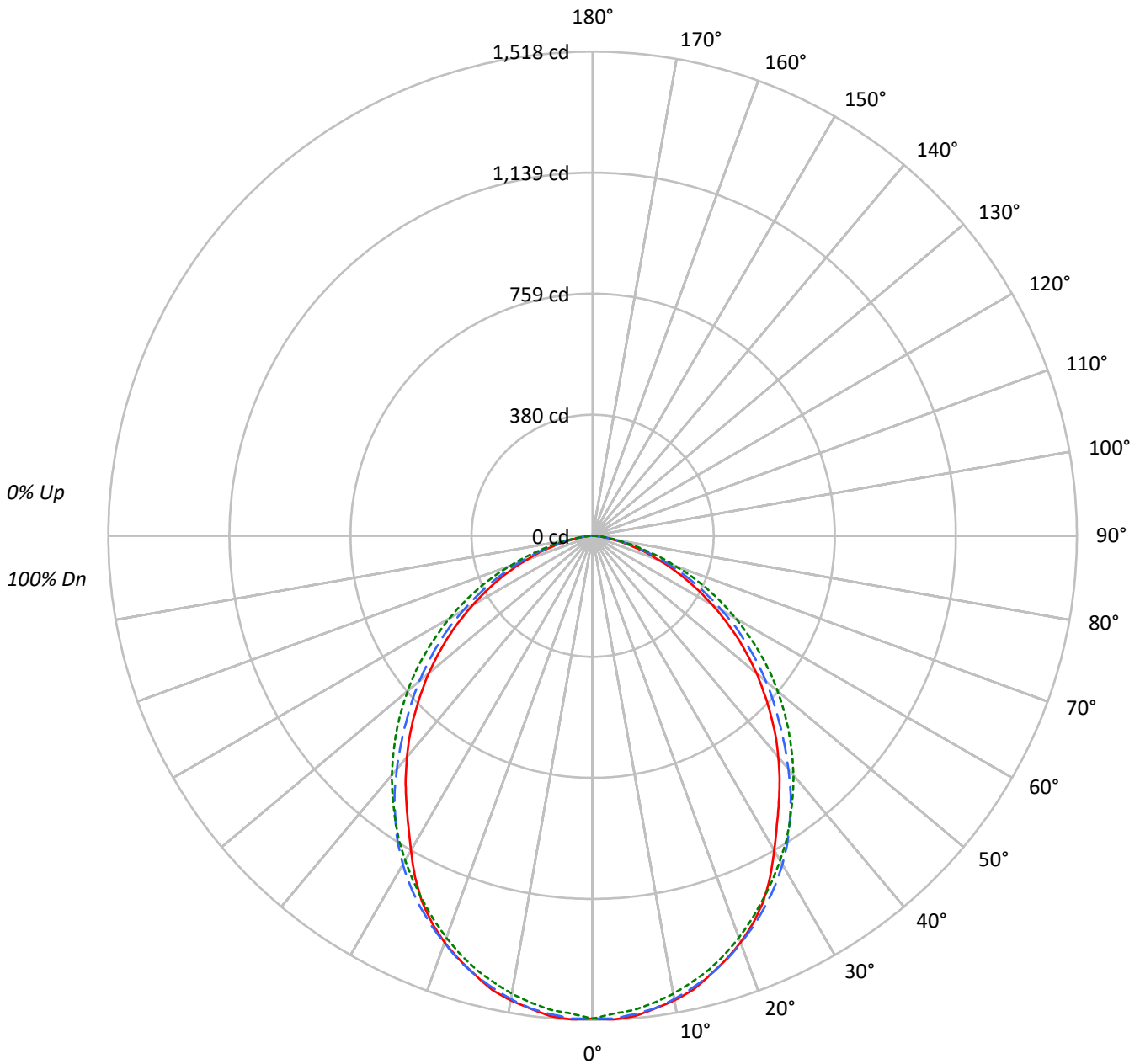
Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8147	8147	8147
5°	8168	8133	8064
10°	8082	8059	7967
15°	7938	7938	7847
20°	7770	7780	7680
25°	7514	7608	7486
30°	7076	7394	7303
35°	6686	7087	7098
40°	6361	6705	6880
45°	5997	6298	6621
50°	5614	5936	6339
55°	5178	5522	5997
60°	4663	5039	5577
65°	4117	4480	5072
70°	3432	3816	4310
75°	2697	3046	3373
80°	1928	2145	2380
85°	1260	1260	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	4.1
10°-20°	400.4	11.4
20°-30°	585.1	16.7
30°-40°	664.1	19.0
40°-50°	641.1	18.3
50°-60°	528.9	15.1
60°-70°	352.2	10.1
70°-80°	157.6	4.5
80°-90°	28.2	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°	1128.0	32.2
0°-40°	1792.1	51.2
0°-60°	2962.0	84.6
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1512	1511	1506	1497	1493	143
15°	1425	1428	1425	1418	1408	402
25°	1265	1275	1281	1272	1261	579
35°	1018	1032	1079	1084	1080	638
45°	788	801	828	865	870	608
55°	552	561	588	621	639	493
65°	323	332	352	377	398	321
75°	130	137	146	154	162	142
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°	1513.7	1513.7	1513.7	1513.7	1513.7
2.5°	1517.7	1518.3	1514.8	1505.5	1499.7
5°	1511.9	1511.3	1505.5	1497.4	1492.7
7.5°	1495.1	1496.2	1494.5	1482.8	1476.4
10°	1478.8	1479.4	1474.7	1465.4	1457.8
12.5°	1457.8	1457.3	1450.9	1446.2	1434.0
15°	1424.7	1428.2	1424.7	1418.3	1408.4
17.5°	1392.7	1392.7	1395.0	1384.0	1376.4
20°	1356.7	1358.4	1358.4	1349.7	1341.0
22.5°	1314.8	1320.0	1321.8	1312.5	1302.0
25°	1265.4	1275.2	1281.1	1271.8	1260.7
27.5°	1205.5	1220.6	1238.0	1231.0	1218.8
30°	1138.6	1160.7	1189.8	1183.9	1175.2
32.5°	1075.2	1097.3	1137.4	1135.1	1130.4
35°	1017.6	1031.6	1078.7	1084.5	1080.4
37.5°	963.0	975.8	1020.0	1033.3	1029.8
40°	905.4	919.4	954.3	978.1	979.3
42.5°	848.4	861.8	890.3	924.6	924.6
45°	787.9	801.3	827.5	865.3	869.9
47.5°	728.6	742.6	768.2	806.0	813.5
50°	670.5	683.3	708.9	745.5	757.1
52.5°	610.0	624.0	649.0	682.7	699.6
55°	551.8	561.2	588.5	621.0	639.1
57.5°	491.4	500.1	530.9	558.8	577.4
60°	433.2	444.3	468.1	496.6	518.1
62.5°	377.4	389.0	409.4	434.4	458.8
65°	323.3	332.0	351.8	376.8	398.3
67.5°	271.0	278.5	298.3	315.8	338.4
70°	218.1	228.0	242.5	259.4	273.9
72.5°	175.6	179.7	191.9	204.1	219.2
75°	129.7	136.7	146.5	153.5	162.2
77.5°	93.0	97.1	102.9	108.7	116.9
80°	62.2	64.0	69.2	70.4	76.8
82.5°	37.8	39.0	40.1	40.7	43.0
85°	20.4	20.4	20.4	19.2	19.2
87.5°	11.6	11.6	9.9	8.1	5.8
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)