

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: P555797

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-86-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: P555797
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

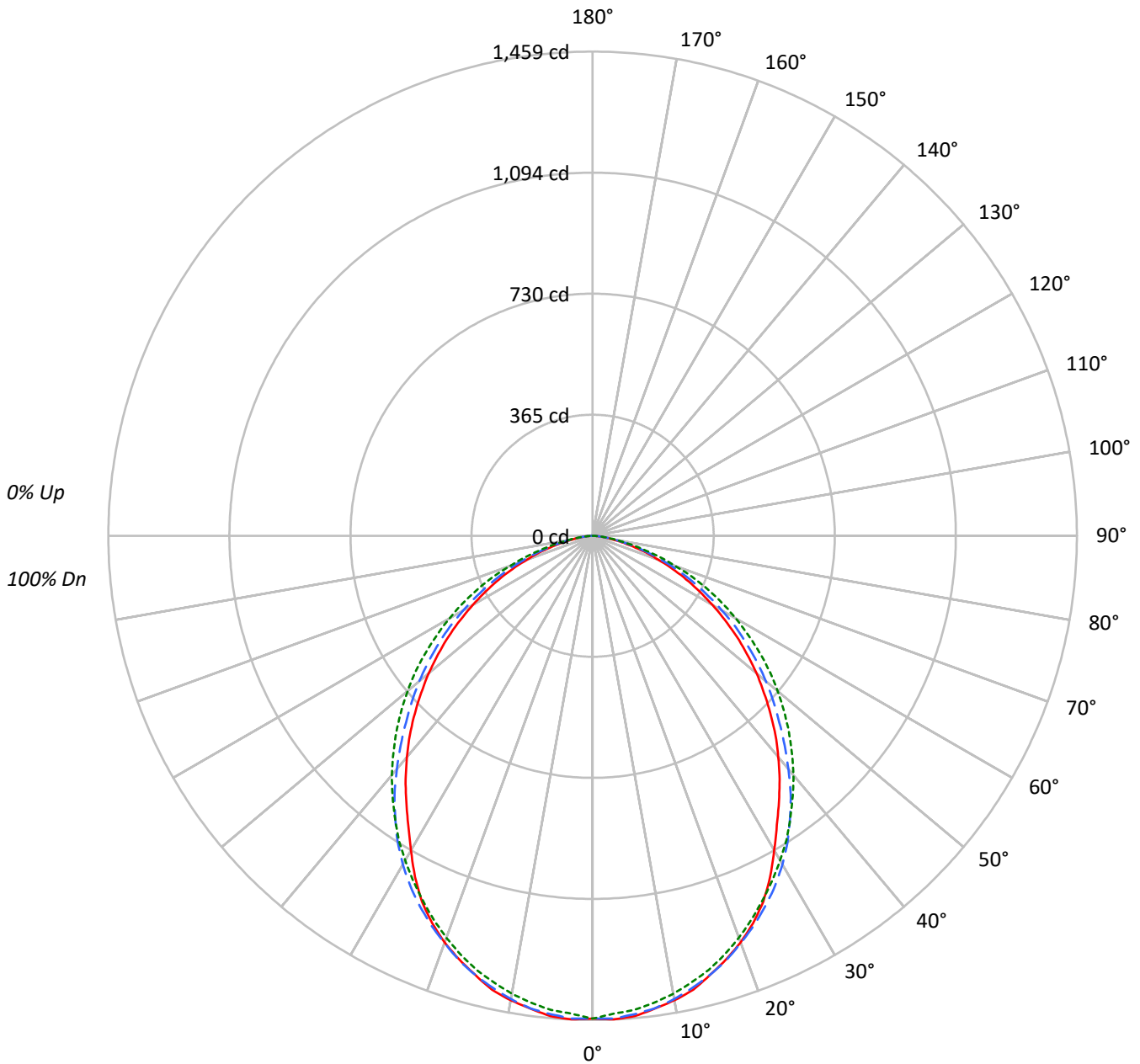
Lumens per Lamp: N/A
Luminaire Lumens: 3364.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7830	7830	7830
5°	7851	7817	7751
10°	7767	7746	7658
15°	7629	7629	7543
20°	7468	7478	7381
25°	7222	7312	7195
30°	6801	7106	7020
35°	6426	6812	6823
40°	6114	6444	6613
45°	5764	6053	6364
50°	5395	5704	6093
55°	4977	5307	5763
60°	4482	4843	5360
65°	3958	4306	4876
70°	3298	3668	4142
75°	2591	2928	3242
80°	1853	2061	2287
85°	1210	1210	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.1
10°-20°	384.8	11.4
20°-30°	562.3	16.7
30°-40°	638.3	19.0
40°-50°	616.2	18.3
50°-60°	508.3	15.1
60°-70°	338.5	10.1
70°-80°	151.5	4.5
80°-90°	27.1	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°	1084.1	32.2
0°-40°	1722.4	51.2
0°-60°	2846.9	84.6
0°-90°	3364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1453	1453	1447	1439	1435	138
15°	1369	1373	1369	1363	1354	386
25°	1216	1226	1231	1222	1212	557
35°	978	992	1037	1042	1038	613
45°	757	770	795	832	836	584
55°	530	539	566	597	614	473
65°	311	319	338	362	383	308
75°	125	131	141	148	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1458.8	1459.3	1456.0	1447.0	1441.4
5°	1453.2	1452.6	1447.0	1439.2	1434.7
7.5°	1437.0	1438.1	1436.4	1425.2	1419.1
10°	1421.3	1421.9	1417.4	1408.5	1401.2
12.5°	1401.2	1400.6	1394.5	1390.0	1378.3
15°	1369.3	1372.7	1369.3	1363.2	1353.7
17.5°	1338.6	1338.6	1340.8	1330.2	1322.9
20°	1303.9	1305.6	1305.6	1297.2	1288.8
22.5°	1263.7	1268.7	1270.4	1261.5	1251.4
25°	1216.2	1225.7	1231.3	1222.3	1211.7
27.5°	1158.6	1173.2	1189.9	1183.2	1171.5
30°	1094.3	1115.6	1143.5	1137.9	1129.6
32.5°	1033.4	1054.7	1093.2	1091.0	1086.5
35°	978.1	991.5	1036.8	1042.4	1038.5
37.5°	925.6	937.9	980.3	993.2	989.8
40°	870.2	883.6	917.2	940.1	941.2
42.5°	815.4	828.3	855.7	888.7	888.7
45°	757.3	770.2	795.3	831.7	836.1
47.5°	700.3	713.7	738.3	774.6	781.9
50°	644.4	656.7	681.3	716.5	727.7
52.5°	586.3	599.7	623.7	656.2	672.4
55°	530.4	539.3	565.6	596.9	614.2
57.5°	472.3	480.7	510.3	537.1	555.0
60°	416.4	427.0	449.9	477.3	498.0
62.5°	362.7	373.9	393.5	417.5	441.0
65°	310.8	319.1	338.1	362.2	382.9
67.5°	260.5	267.7	286.7	303.5	325.3
70°	209.6	219.1	233.1	249.3	263.2
72.5°	168.8	172.7	184.4	196.2	210.7
75°	124.6	131.3	140.8	147.6	155.9
77.5°	89.4	93.3	98.9	104.5	112.3
80°	59.8	61.5	66.5	67.6	73.8
82.5°	36.3	37.4	38.6	39.1	41.4
85°	19.6	19.6	19.6	18.4	18.4
87.5°	11.2	11.2	9.5	7.8	5.6
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)