

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: P554711

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-87-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: P554711
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-LD4-2HI-35-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

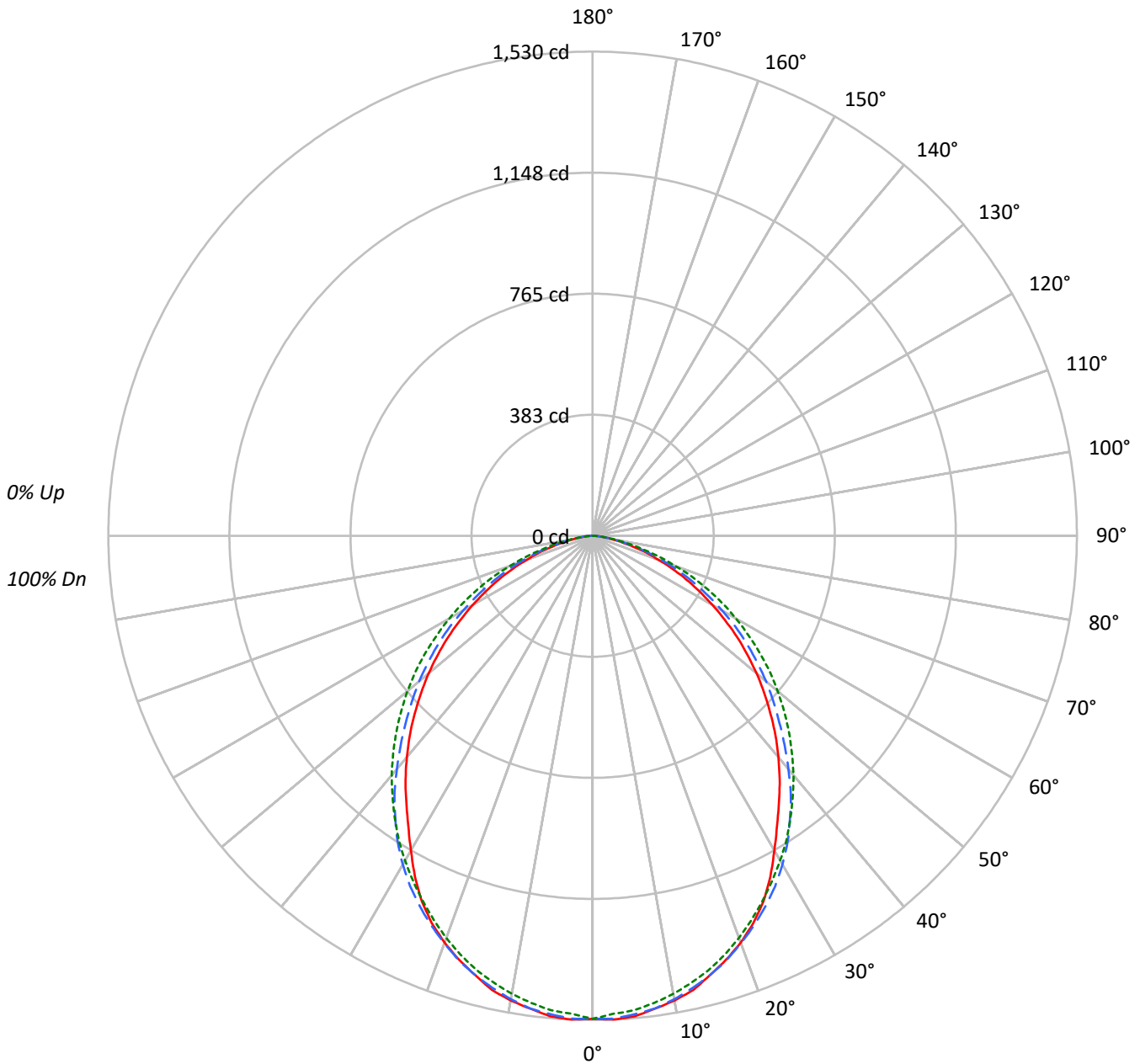
Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8214	8214	8214
5°	8236	8201	8131
10°	8148	8126	8033
15°	8004	8004	7913
20°	7834	7845	7744
25°	7576	7671	7549
30°	7134	7455	7364
35°	6742	7146	7158
40°	6414	6760	6937
45°	6047	6350	6676
50°	5660	5984	6392
55°	5221	5568	6047
60°	4702	5081	5623
65°	4152	4517	5114
70°	3460	3847	4346
75°	2720	3073	3402
80°	1943	2163	2399
85°	1266	1266	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	4.1
10°-20°	403.7	11.4
20°-30°	589.9	16.7
30°-40°	669.6	19.0
40°-50°	646.4	18.3
50°-60°	533.2	15.1
60°-70°	355.1	10.1
70°-80°	158.9	4.5
80°-90°	28.4	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°	1137.3	32.2
0°-40°	1806.9	51.2
0°-60°	2986.6	84.6
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1524	1524	1518	1510	1505	144
15°	1436	1440	1436	1430	1420	405
25°	1276	1286	1292	1282	1271	584
35°	1026	1040	1088	1094	1089	643
45°	794	808	834	872	877	613
55°	556	566	593	626	644	497
65°	326	335	355	380	402	323
75°	131	138	148	155	164	143
85°	20	20	20	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1530.3	1530.9	1527.4	1518.0	1512.1
5°	1524.4	1523.9	1518.0	1509.8	1505.1
7.5°	1507.4	1508.6	1506.9	1495.1	1488.7
10°	1491.0	1491.6	1486.9	1477.5	1469.9
12.5°	1469.9	1469.3	1462.9	1458.2	1445.9
15°	1436.5	1440.0	1436.5	1430.0	1420.1
17.5°	1404.2	1404.2	1406.6	1395.5	1387.8
20°	1367.9	1369.7	1369.7	1360.9	1352.1
22.5°	1325.7	1331.0	1332.7	1323.3	1312.8
25°	1275.8	1285.8	1291.7	1282.3	1271.2
27.5°	1215.4	1230.7	1248.3	1241.2	1228.9
30°	1148.0	1170.3	1199.6	1193.8	1185.0
32.5°	1084.1	1106.4	1146.8	1144.5	1139.8
35°	1026.1	1040.1	1087.6	1093.5	1089.4
37.5°	971.0	983.9	1028.4	1041.9	1038.4
40°	912.9	927.0	962.2	986.2	987.4
42.5°	855.4	868.9	897.7	932.3	932.3
45°	794.5	808.0	834.3	872.5	877.1
47.5°	734.7	748.7	774.5	812.6	820.3
50°	676.0	688.9	714.7	751.7	763.4
52.5°	615.1	629.1	654.3	688.3	705.3
55°	556.4	565.8	593.4	626.2	644.4
57.5°	495.4	504.2	535.3	563.5	582.2
60°	436.8	448.0	472.0	500.7	522.4
62.5°	380.5	392.3	412.8	438.0	462.6
65°	326.0	334.8	354.7	379.9	401.6
67.5°	273.2	280.8	300.8	318.4	341.2
70°	219.9	229.8	244.5	261.5	276.2
72.5°	177.1	181.2	193.5	205.8	221.0
75°	130.8	137.8	147.8	154.8	163.6
77.5°	93.8	97.9	103.8	109.6	117.9
80°	62.7	64.5	69.8	70.9	77.4
82.5°	38.1	39.3	40.5	41.0	43.4
85°	20.5	20.5	20.5	19.3	19.3
87.5°	11.7	11.7	10.0	8.2	5.9
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)