

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: P555783

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-81-87-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: P555783
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

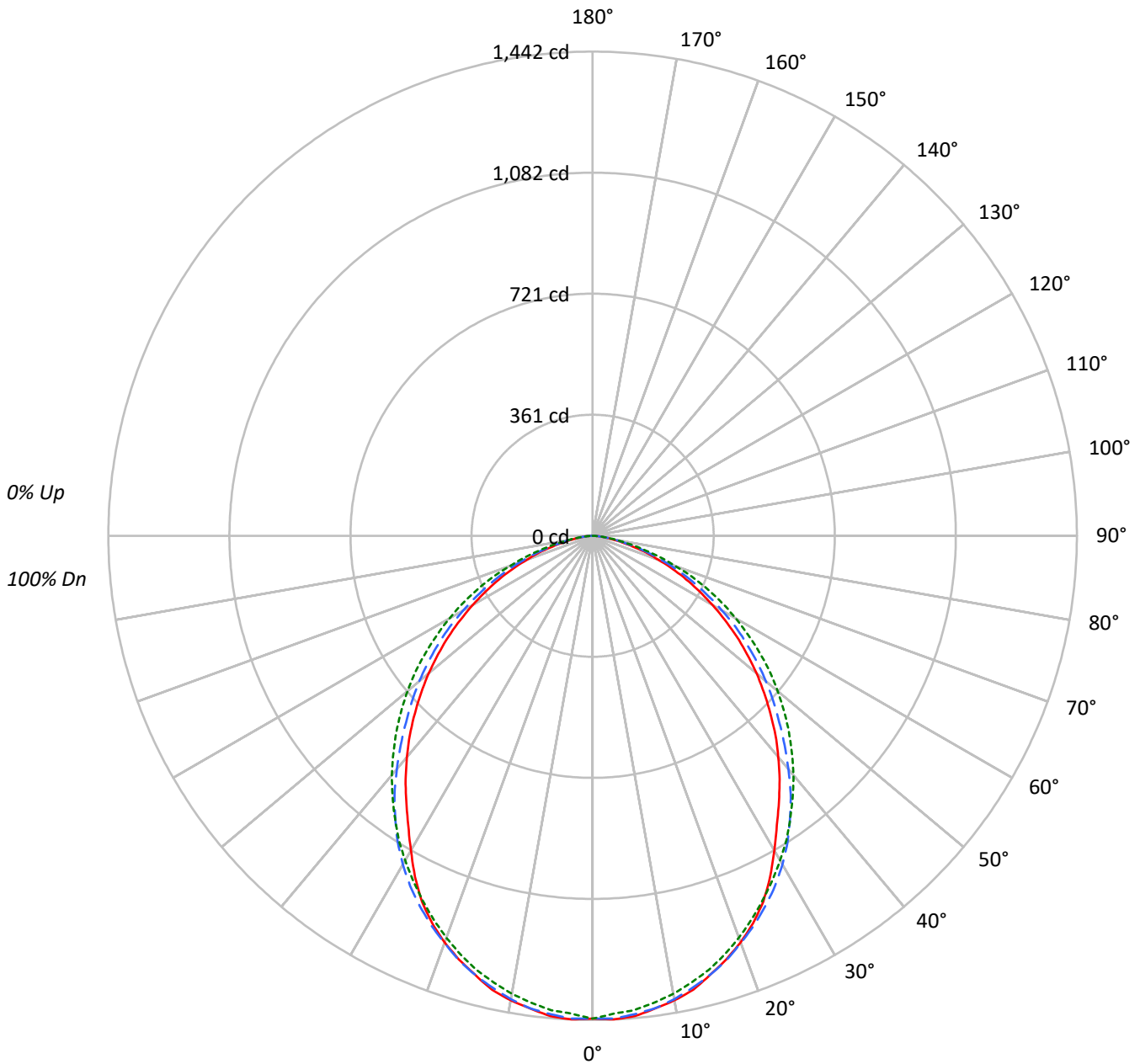
Lumens per Lamp: N/A
Luminaire Lumens: 3325.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7739	7739	7739
5°	7760	7727	7661
10°	7677	7656	7568
15°	7541	7541	7455
20°	7381	7391	7296
25°	7138	7227	7112
30°	6722	7024	6939
35°	6352	6733	6744
40°	6043	6369	6536
45°	5697	5983	6290
50°	5333	5638	6023
55°	4920	5246	5697
60°	4430	4787	5298
65°	3912	4256	4819
70°	3260	3626	4094
75°	2562	2895	3204
80°	1832	2036	2259
85°	1192	1192	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	4.1
10°-20°	380.4	11.4
20°-30°	555.8	16.7
30°-40°	630.9	19.0
40°-50°	609.1	18.3
50°-60°	502.4	15.1
60°-70°	334.6	10.1
70°-80°	149.7	4.5
80°-90°	26.8	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°	1071.6	32.2
0°-40°	1702.5	51.2
0°-60°	2814.0	84.6
0°-90°	3325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1436	1436	1430	1422	1418	136
15°	1354	1357	1354	1347	1338	382
25°	1202	1212	1217	1208	1198	550
35°	967	980	1025	1030	1026	606
45°	748	761	786	822	826	578
55°	524	533	559	590	607	468
65°	307	315	334	358	378	305
75°	123	130	139	146	154	135
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1441.8	1442.4	1439.1	1430.2	1424.7
5°	1436.3	1435.8	1430.2	1422.5	1418.1
7.5°	1420.3	1421.4	1419.7	1408.7	1402.6
10°	1404.8	1405.4	1401.0	1392.1	1384.9
12.5°	1384.9	1384.4	1378.3	1373.9	1362.3
15°	1353.5	1356.8	1353.5	1347.4	1338.0
17.5°	1323.1	1323.1	1325.3	1314.8	1307.6
20°	1288.8	1290.5	1290.5	1282.2	1273.9
22.5°	1249.0	1254.0	1255.7	1246.8	1236.9
25°	1202.1	1211.5	1217.0	1208.2	1197.7
27.5°	1145.2	1159.6	1176.1	1169.5	1157.9
30°	1081.7	1102.7	1130.3	1124.7	1116.5
32.5°	1021.4	1042.4	1080.6	1078.3	1073.9
35°	966.8	980.0	1024.8	1030.3	1026.4
37.5°	914.8	927.0	969.0	981.7	978.4
40°	860.1	873.4	906.5	929.2	930.3
42.5°	806.0	818.7	845.8	878.4	878.4
45°	748.5	761.2	786.1	822.0	826.4
47.5°	692.2	705.5	729.8	765.7	772.9
50°	637.0	649.1	673.4	708.2	719.3
52.5°	579.5	592.8	616.5	648.6	664.6
55°	524.3	533.1	559.1	590.0	607.1
57.5°	466.8	475.1	504.4	530.9	548.6
60°	411.6	422.1	444.7	471.8	492.2
62.5°	358.5	369.6	388.9	412.7	435.9
65°	307.2	315.4	334.2	358.0	378.4
67.5°	257.4	264.6	283.4	300.0	321.5
70°	207.2	216.6	230.4	246.4	260.2
72.5°	166.8	170.7	182.3	193.9	208.3
75°	123.2	129.8	139.2	145.8	154.1
77.5°	88.4	92.3	97.8	103.3	111.0
80°	59.1	60.8	65.7	66.8	72.9
82.5°	35.9	37.0	38.1	38.7	40.9
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	5.5
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)