

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: P554650

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-82-94-EDD-90**

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: P554650
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-30-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

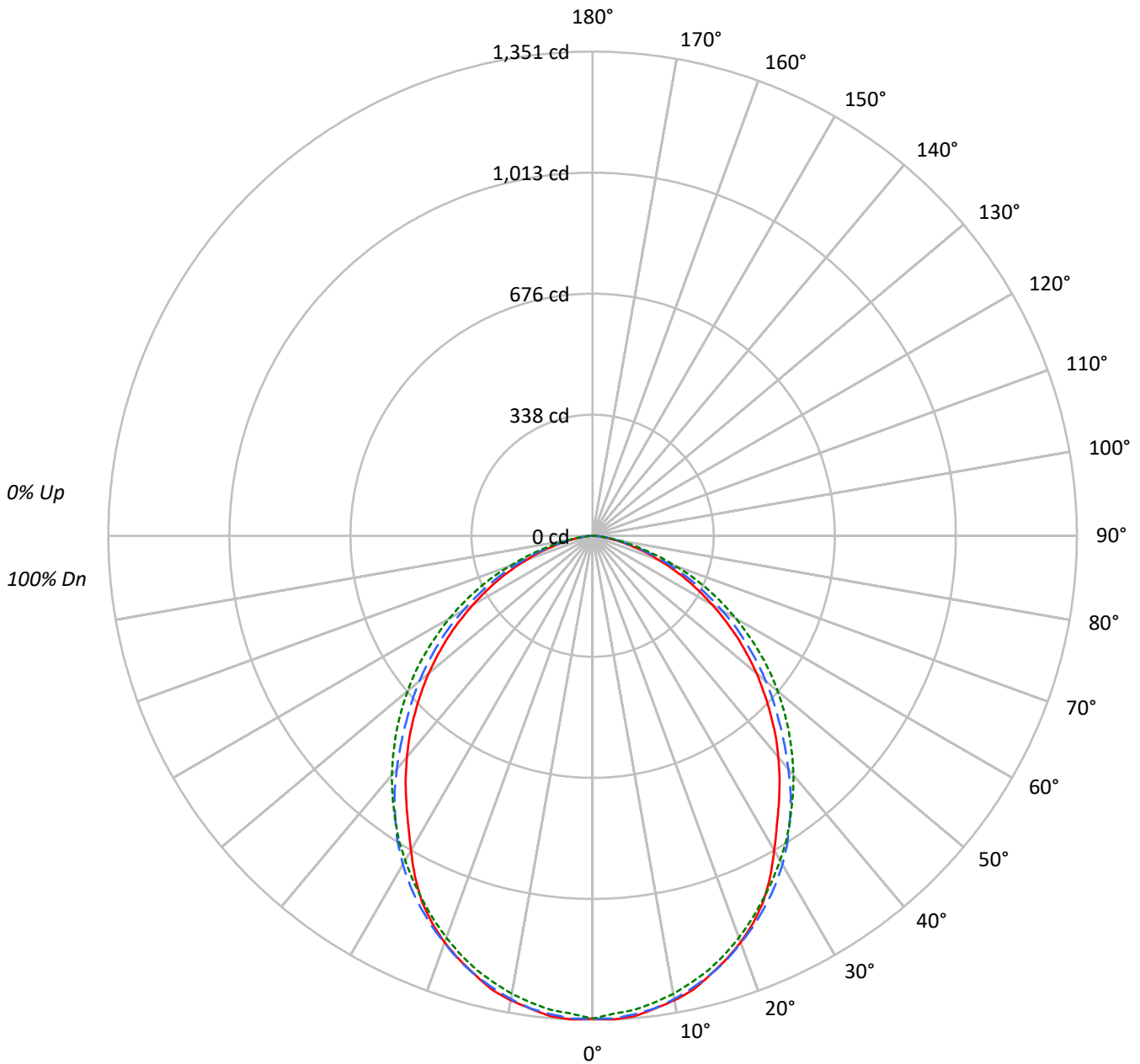
Lumens per Lamp: N/A
Luminaire Lumens: 3115.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7251	7251	7251
5°	7270	7239	7177
10°	7192	7173	7091
15°	7065	7065	6984
20°	6915	6924	6835
25°	6688	6770	6663
30°	6297	6581	6500
35°	5951	6307	6318
40°	5661	5967	6123
45°	5338	5606	5893
50°	4996	5282	5642
55°	4608	4915	5337
60°	4151	4484	4963
65°	3665	3987	4514
70°	3054	3396	3836
75°	2400	2712	3003
80°	1717	1909	2117
85°	1118	1118	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	4.1
10°-20°	356.3	11.4
20°-30°	520.7	16.7
30°-40°	591.1	19.0
40°-50°	570.6	18.3
50°-60°	470.7	15.1
60°-70°	313.4	10.1
70°-80°	140.3	4.5
80°-90°	25.1	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°	1003.9	32.2
0°-40°	1594.9	51.2
0°-60°	2636.2	84.6
0°-90°	3115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1346	1345	1340	1333	1328	127
15°	1268	1271	1268	1262	1254	357
25°	1126	1135	1140	1132	1122	516
35°	906	918	960	965	962	567
45°	701	713	736	770	774	541
55°	491	499	524	553	569	438
65°	288	296	313	335	354	285
75°	115	122	130	137	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.2	1347.2	1347.2	1347.2	1347.2
2.5°	1350.8	1351.3	1348.2	1339.9	1334.7
5°	1345.6	1345.1	1339.9	1332.7	1328.5
7.5°	1330.6	1331.6	1330.1	1319.7	1314.0
10°	1316.1	1316.6	1312.5	1304.2	1297.5
12.5°	1297.5	1297.0	1291.3	1287.1	1276.3
15°	1268.0	1271.1	1268.0	1262.3	1253.5
17.5°	1239.5	1239.5	1241.6	1231.7	1225.0
20°	1207.4	1209.0	1209.0	1201.2	1193.4
22.5°	1170.2	1174.8	1176.4	1168.1	1158.8
25°	1126.2	1135.0	1140.1	1131.9	1122.0
27.5°	1072.9	1086.3	1101.8	1095.6	1084.8
30°	1013.3	1033.0	1058.9	1053.7	1045.9
32.5°	956.9	976.6	1012.3	1010.2	1006.1
35°	905.7	918.1	960.0	965.2	961.6
37.5°	857.0	868.4	907.8	919.7	916.6
40°	805.8	818.2	849.3	870.5	871.5
42.5°	755.1	767.0	792.4	822.9	822.9
45°	701.3	713.2	736.5	770.1	774.2
47.5°	648.5	660.9	683.7	717.3	724.0
50°	596.7	608.1	630.9	663.5	673.8
52.5°	542.9	555.3	577.6	607.6	622.6
55°	491.1	499.4	523.8	552.7	568.8
57.5°	437.3	445.1	472.5	497.4	513.9
60°	385.6	395.4	416.6	442.0	461.1
62.5°	335.9	346.2	364.3	386.6	408.3
65°	287.8	295.5	313.1	335.4	354.5
67.5°	241.2	247.9	265.5	281.0	301.2
70°	194.1	202.9	215.8	230.8	243.8
72.5°	156.3	159.9	170.8	181.7	195.1
75°	115.4	121.6	130.4	136.6	144.4
77.5°	82.8	86.4	91.6	96.8	104.0
80°	55.4	56.9	61.6	62.6	68.3
82.5°	33.6	34.7	35.7	36.2	38.3
85°	18.1	18.1	18.1	17.1	17.1
87.5°	10.4	10.4	8.8	7.2	5.2
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)