

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: P555348

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-82-86-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: P555348
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-LD4-2STD-50-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

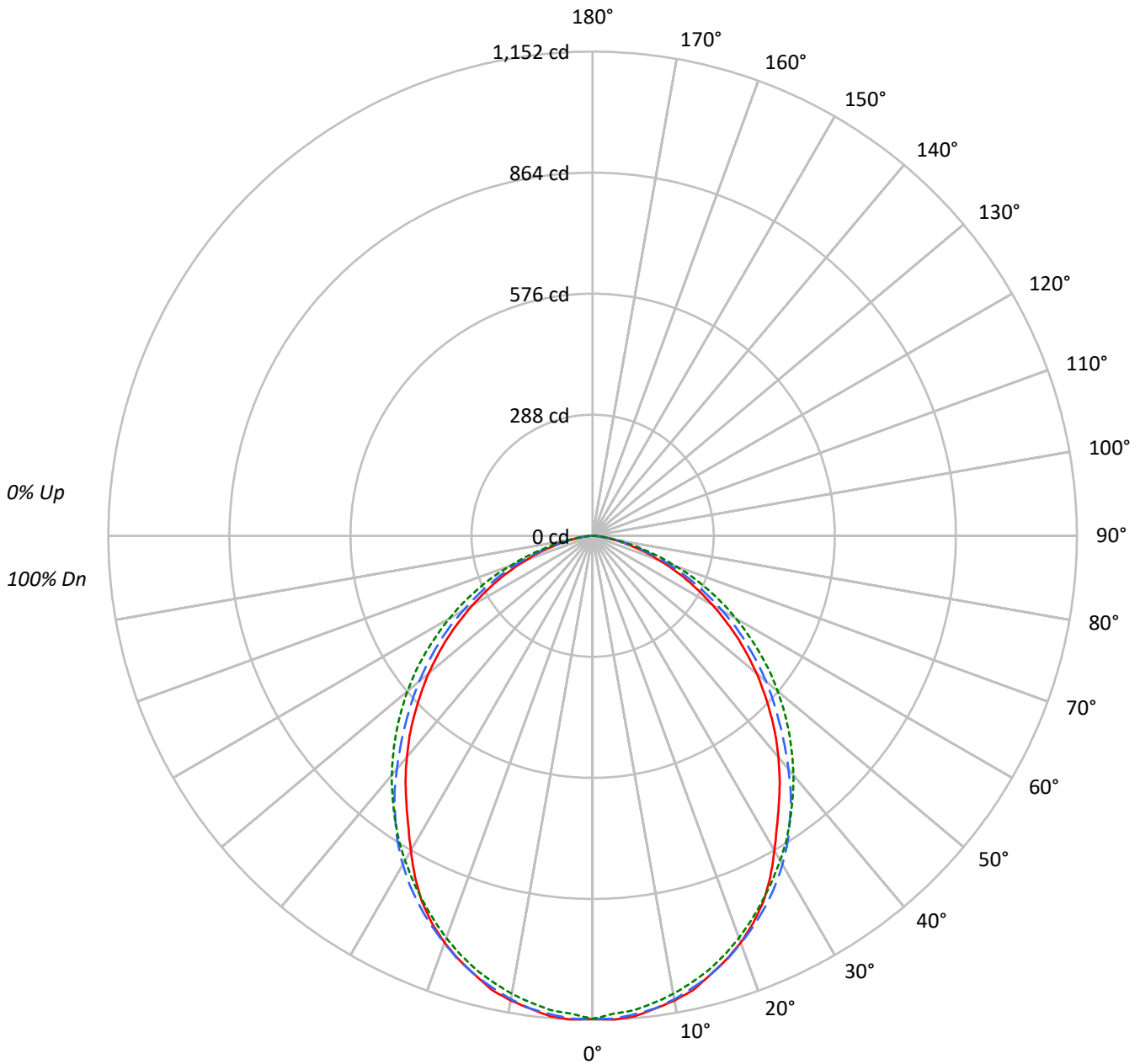
Lumens per Lamp: N/A
Luminaire Lumens: 2657.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6184	6184	6184
5°	6201	6175	6122
10°	6135	6118	6048
15°	6026	6026	5957
20°	5899	5906	5830
25°	5704	5775	5684
30°	5372	5613	5545
35°	5075	5380	5389
40°	4829	5089	5223
45°	4553	4781	5026
50°	4262	4505	4813
55°	3931	4191	4552
60°	3540	3825	4233
65°	3125	3401	3851
70°	2604	2897	3271
75°	2046	2312	2562
80°	1463	1627	1807
85°	957	957	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	4.1
10°-20°	303.9	11.4
20°-30°	444.1	16.7
30°-40°	504.2	19.0
40°-50°	486.7	18.3
50°-60°	401.5	15.1
60°-70°	267.4	10.1
70°-80°	119.6	4.5
80°-90°	21.4	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°	856.3	32.2
0°-40°	1360.4	51.2
0°-60°	2248.6	84.6
0°-90°	2657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1148	1147	1143	1137	1133	109
15°	1082	1084	1082	1077	1069	305
25°	961	968	972	965	957	440
35°	772	783	819	823	820	484
45°	598	608	628	657	660	462
55°	419	426	447	472	485	374
65°	245	252	267	286	302	243
75°	98	104	111	116	123	108
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.1	1149.1	1149.1	1149.1	1149.1
2.5°	1152.2	1152.6	1150.0	1142.9	1138.5
5°	1147.8	1147.3	1142.9	1136.7	1133.2
7.5°	1135.0	1135.8	1134.5	1125.7	1120.8
10°	1122.6	1123.0	1119.5	1112.4	1106.7
12.5°	1106.7	1106.3	1101.4	1097.9	1088.6
15°	1081.5	1084.2	1081.5	1076.7	1069.2
17.5°	1057.3	1057.3	1059.0	1050.6	1044.9
20°	1029.9	1031.2	1031.2	1024.6	1018.0
22.5°	998.1	1002.1	1003.4	996.3	988.4
25°	960.6	968.1	972.5	965.4	957.1
27.5°	915.1	926.6	939.8	934.5	925.3
30°	864.4	881.1	903.2	898.8	892.2
32.5°	816.2	833.0	863.5	861.7	858.2
35°	772.5	783.1	818.9	823.3	820.2
37.5°	731.0	740.7	774.3	784.4	781.8
40°	687.3	697.9	724.4	742.5	743.4
42.5°	644.1	654.2	675.9	701.9	701.9
45°	598.2	608.3	628.2	656.9	660.4
47.5°	553.1	563.7	583.2	611.8	617.6
50°	509.0	518.7	538.1	565.9	574.8
52.5°	463.1	473.7	492.7	518.3	531.1
55°	418.9	426.0	446.7	471.5	485.1
57.5°	373.0	379.6	403.0	424.2	438.4
60°	328.9	337.3	355.4	377.0	393.3
62.5°	286.5	295.3	310.8	329.8	348.3
65°	245.4	252.1	267.1	286.1	302.4
67.5°	205.7	211.5	226.5	239.7	256.9
70°	165.5	173.0	184.1	196.9	207.9
72.5°	133.3	136.4	145.7	154.9	166.4
75°	98.4	103.7	111.2	116.5	123.2
77.5°	70.6	73.7	78.1	82.6	88.7
80°	47.2	48.6	52.5	53.4	58.3
82.5°	28.7	29.6	30.5	30.9	32.7
85°	15.5	15.5	15.5	14.6	14.6
87.5°	8.8	8.8	7.5	6.2	4.4
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)