

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: P554776

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-88-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: P554776
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-40-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

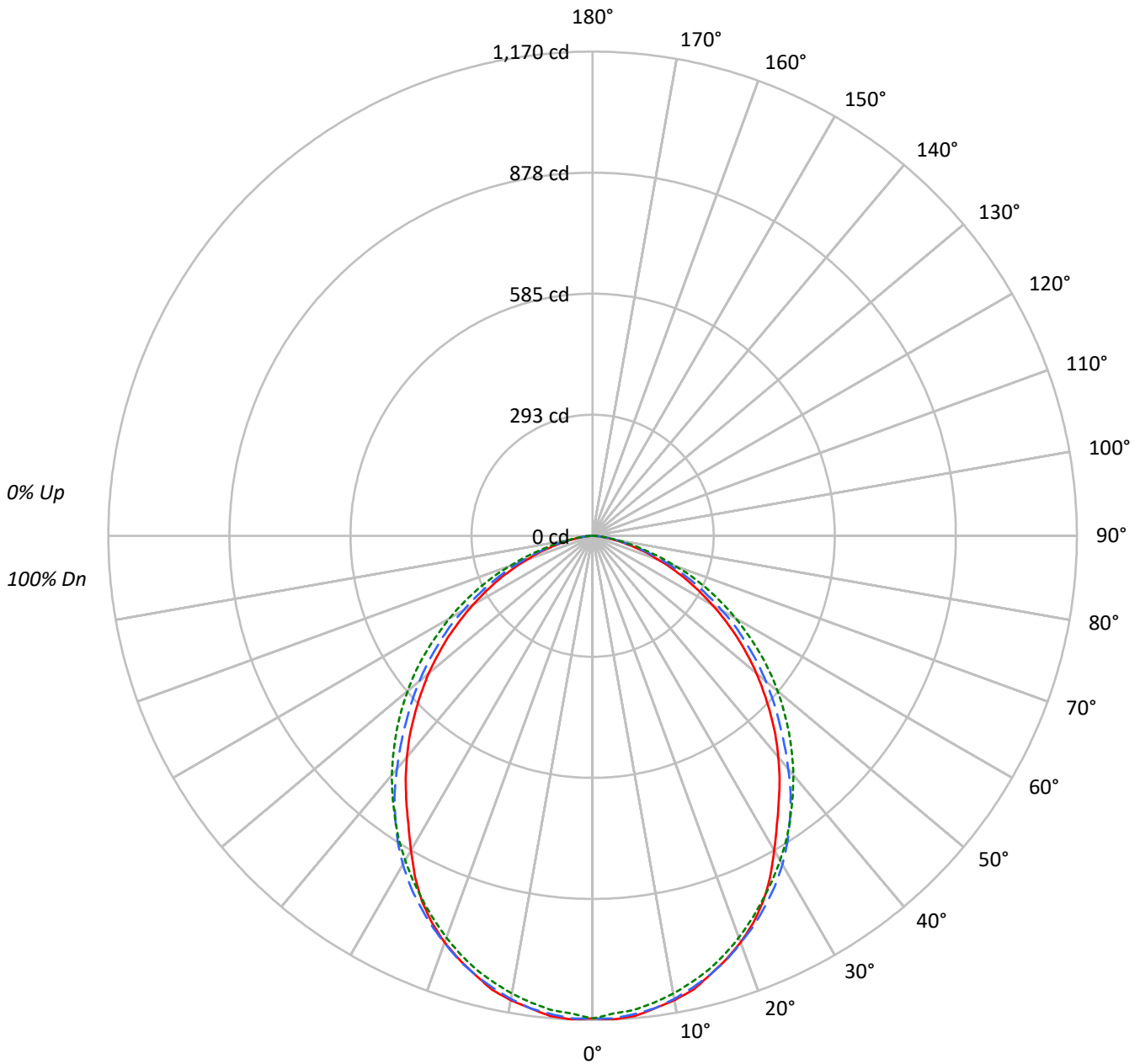
Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6278	6278	6278
5°	6294	6267	6215
10°	6227	6210	6139
15°	6117	6117	6047
20°	5987	5995	5918
25°	5790	5862	5769
30°	5453	5697	5628
35°	5152	5461	5470
40°	4902	5166	5302
45°	4622	4853	5102
50°	4325	4573	4885
55°	3990	4255	4621
60°	3593	3883	4297
65°	3172	3452	3908
70°	2644	2941	3322
75°	2077	2348	2599
80°	1485	1652	1832
85°	969	969	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	4.1
10°-20°	308.5	11.4
20°-30°	450.8	16.7
30°-40°	511.8	19.0
40°-50°	494.0	18.3
50°-60°	407.5	15.1
60°-70°	271.4	10.1
70°-80°	121.4	4.5
80°-90°	21.7	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°	869.2	32.2
0°-40°	1380.9	51.2
0°-60°	2282.5	84.6
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1165	1165	1160	1154	1150	110
15°	1098	1100	1098	1093	1085	309
25°	975	983	987	980	972	447
35°	784	795	831	836	833	491
45°	607	618	638	667	670	468
55°	425	432	454	479	492	380
65°	249	256	271	290	307	247
75°	100	105	113	118	125	109
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°	1166.4	1166.4	1166.4	1166.4	1166.4
2.5°	1169.5	1170.0	1167.3	1160.1	1155.6
5°	1165.0	1164.6	1160.1	1153.8	1150.3
7.5°	1152.0	1152.9	1151.6	1142.6	1137.7
10°	1139.5	1139.9	1136.4	1129.2	1123.4
12.5°	1123.4	1122.9	1118.0	1114.4	1105.0
15°	1097.8	1100.5	1097.8	1092.9	1085.3
17.5°	1073.2	1073.2	1075.0	1066.5	1060.6
20°	1045.4	1046.7	1046.7	1040.0	1033.3
22.5°	1013.1	1017.2	1018.5	1011.3	1003.3
25°	975.0	982.7	987.1	980.0	971.5
27.5°	928.9	940.5	954.0	948.6	939.2
30°	877.4	894.4	916.8	912.3	905.6
32.5°	828.5	845.5	876.5	874.7	871.1
35°	784.2	794.9	831.2	835.7	832.6
37.5°	742.0	751.9	786.0	796.3	793.6
40°	697.7	708.4	735.3	753.7	754.6
42.5°	653.8	664.1	686.0	712.5	712.5
45°	607.2	617.5	637.6	666.8	670.3
47.5°	561.5	572.2	591.9	621.1	626.9
50°	516.6	526.5	546.2	574.5	583.4
52.5°	470.0	480.8	500.1	526.1	539.1
55°	425.2	432.4	453.5	478.6	492.5
57.5°	378.6	385.4	409.1	430.6	445.0
60°	333.8	342.3	360.7	382.7	399.2
62.5°	290.8	299.8	315.5	334.7	353.5
65°	249.1	255.9	271.1	290.4	306.9
67.5°	208.8	214.6	229.9	243.3	260.8
70°	168.0	175.7	186.9	199.8	211.1
72.5°	135.3	138.5	147.9	157.3	168.9
75°	99.9	105.3	112.9	118.3	125.0
77.5°	71.7	74.8	79.3	83.8	90.1
80°	47.9	49.3	53.3	54.2	59.1
82.5°	29.1	30.0	30.9	31.4	33.2
85°	15.7	15.7	15.7	14.8	14.8
87.5°	9.0	9.0	7.6	6.3	4.5
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)