

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: P555148

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-96-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: P555148
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-30-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

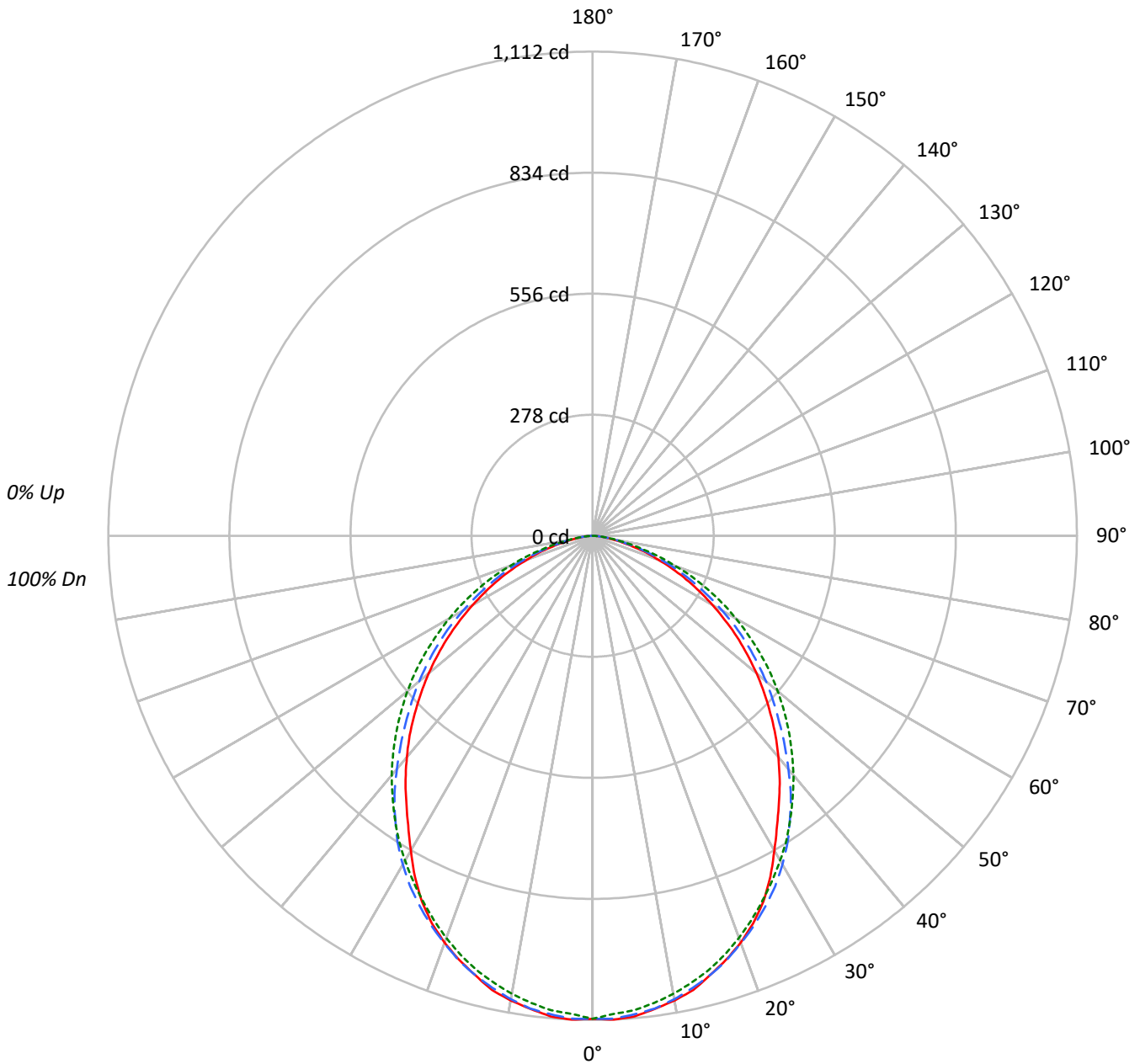
Lumens per Lamp: N/A
Luminaire Lumens: 2565.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5970	5970	5970
5°	5986	5961	5910
10°	5922	5906	5839
15°	5818	5818	5751
20°	5694	5702	5628
25°	5507	5575	5486
30°	5185	5418	5353
35°	4900	5194	5202
40°	4662	4913	5042
45°	4395	4615	4852
50°	4114	4350	4646
55°	3795	4047	4395
60°	3418	3693	4087
65°	3017	3283	3717
70°	2515	2796	3158
75°	1975	2233	2472
80°	1413	1571	1745
85°	920	920	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	4.1
10°-20°	293.4	11.4
20°-30°	428.8	16.7
30°-40°	486.7	19.0
40°-50°	469.8	18.3
50°-60°	387.6	15.1
60°-70°	258.1	10.1
70°-80°	115.5	4.5
80°-90°	20.7	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°	826.6	32.2
0°-40°	1313.3	51.2
0°-60°	2170.7	84.6
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1108	1108	1103	1097	1094	105
15°	1044	1047	1044	1039	1032	294
25°	927	935	939	932	924	425
35°	746	756	790	795	792	467
45°	577	587	606	634	638	446
55°	404	411	431	455	468	361
65°	237	243	258	276	292	235
75°	95	100	107	112	119	104
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.3	1109.3	1109.3	1109.3	1109.3
2.5°	1112.3	1112.7	1110.1	1103.3	1099.1
5°	1108.0	1107.6	1103.3	1097.4	1094.0
7.5°	1095.7	1096.5	1095.2	1086.7	1082.0
10°	1083.7	1084.2	1080.7	1073.9	1068.4
12.5°	1068.4	1068.0	1063.3	1059.9	1050.9
15°	1044.1	1046.7	1044.1	1039.4	1032.2
17.5°	1020.7	1020.7	1022.4	1014.3	1008.7
20°	994.2	995.5	995.5	989.1	982.7
22.5°	963.5	967.4	968.7	961.8	954.2
25°	927.3	934.6	938.8	932.0	923.9
27.5°	883.4	894.5	907.3	902.2	893.2
30°	834.4	850.6	871.9	867.7	861.3
32.5°	788.0	804.2	833.6	831.9	828.5
35°	745.8	756.0	790.5	794.8	791.8
37.5°	705.7	715.1	747.5	757.3	754.7
40°	663.5	673.8	699.3	716.8	717.7
42.5°	621.8	631.6	652.5	677.6	677.6
45°	577.4	587.2	606.4	634.1	637.5
47.5°	534.0	544.2	563.0	590.7	596.2
50°	491.4	500.7	519.5	546.3	554.9
52.5°	447.0	457.3	475.6	500.3	512.7
55°	404.4	411.2	431.3	455.1	468.4
57.5°	360.1	366.5	389.1	409.5	423.2
60°	317.5	325.6	343.1	363.9	379.7
62.5°	276.6	285.1	300.0	318.3	336.2
65°	236.9	243.3	257.8	276.2	291.9
67.5°	198.6	204.1	218.6	231.4	248.0
70°	159.8	167.1	177.7	190.1	200.7
72.5°	128.7	131.7	140.6	149.6	160.7
75°	95.0	100.1	107.4	112.5	118.9
77.5°	68.2	71.2	75.4	79.7	85.7
80°	45.6	46.9	50.7	51.6	56.3
82.5°	27.7	28.6	29.4	29.8	31.5
85°	14.9	14.9	14.9	14.1	14.1
87.5°	8.5	8.5	7.2	6.0	4.3
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)