

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: P555290

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555290
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

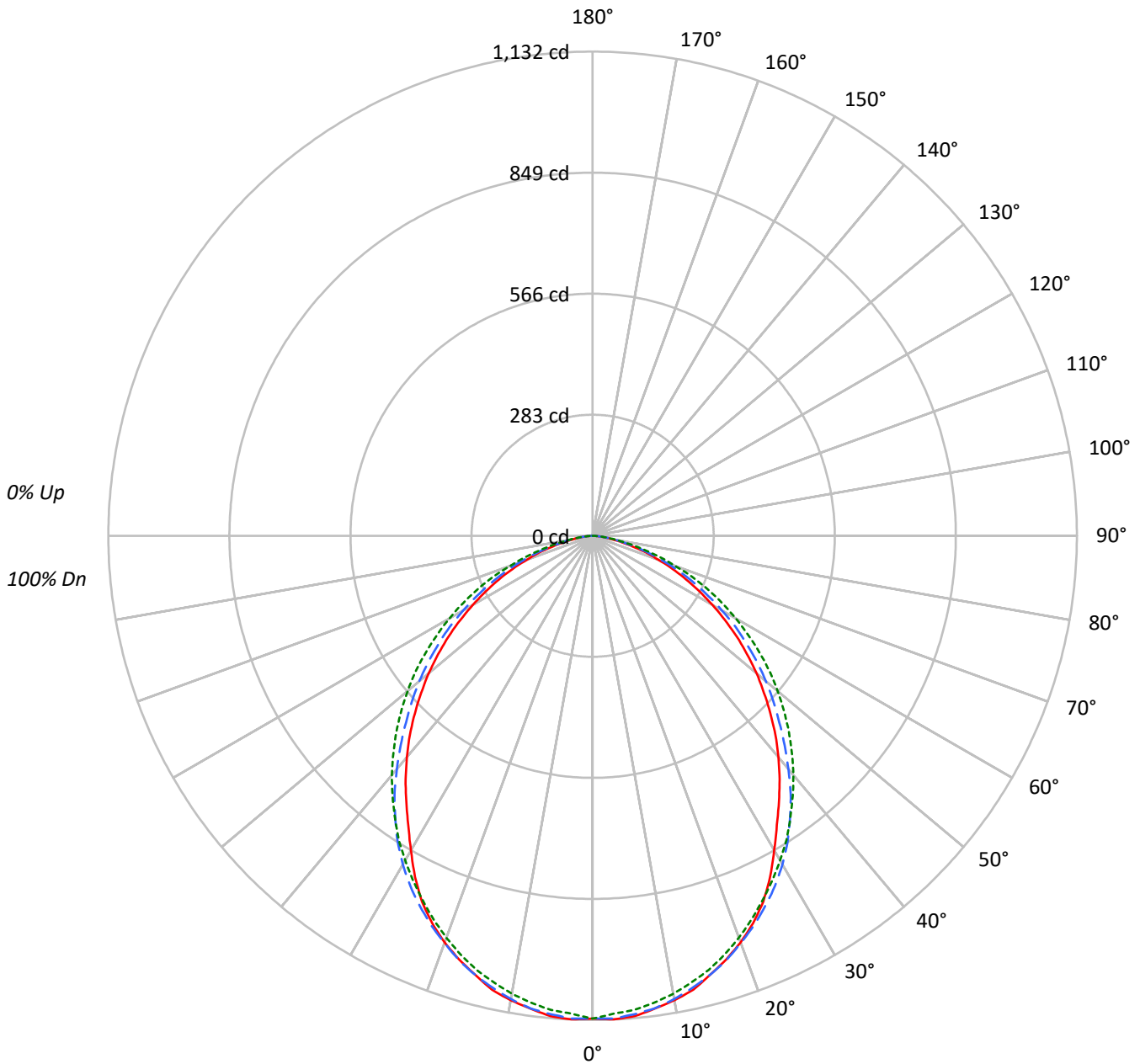
Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	6075	6075	6075
5°	6091	6065	6014
10°	6026	6010	5941
15°	5919	5919	5852
20°	5794	5802	5727
25°	5603	5673	5583
30°	5277	5514	5446
35°	4986	5285	5294
40°	4744	4999	5130
45°	4472	4697	4937
50°	4186	4426	4727
55°	3861	4117	4472
60°	3478	3758	4159
65°	3070	3342	3782
70°	2559	2845	3213
75°	2011	2273	2516
80°	1438	1599	1773
85°	939	939	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	4.1
10°-20°	298.6	11.4
20°-30°	436.3	16.7
30°-40°	495.2	19.0
40°-50°	478.1	18.3
50°-60°	394.4	15.1
60°-70°	262.6	10.1
70°-80°	117.5	4.5
80°-90°	21.0	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°	841.1	32.2
0°-40°	1336.4	51.2
0°-60°	2208.8	84.6
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1128	1127	1123	1117	1113	107
15°	1062	1065	1062	1058	1050	300
25°	944	951	955	948	940	432
35°	759	769	804	809	806	475
45°	588	598	617	645	649	453
55°	412	418	439	463	477	367
65°	241	248	262	281	297	239
75°	97	102	109	114	121	106
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°	1128.8	1128.8	1128.8	1128.8	1128.8
2.5°	1131.8	1132.2	1129.6	1122.7	1118.4
5°	1127.5	1127.0	1122.7	1116.6	1113.1
7.5°	1114.9	1115.7	1114.4	1105.8	1101.0
10°	1102.7	1103.2	1099.7	1092.8	1087.1
12.5°	1087.1	1086.7	1081.9	1078.5	1069.3
15°	1062.4	1065.0	1062.4	1057.6	1050.3
17.5°	1038.6	1038.6	1040.3	1032.1	1026.4
20°	1011.7	1013.0	1013.0	1006.5	1000.0
22.5°	980.5	984.4	985.7	978.7	970.9
25°	943.6	951.0	955.3	948.4	940.1
27.5°	898.9	910.2	923.2	918.0	908.9
30°	849.1	865.5	887.2	882.9	876.4
32.5°	801.8	818.3	848.2	846.5	843.0
35°	758.9	769.3	804.4	808.7	805.7
37.5°	718.1	727.6	760.6	770.6	768.0
40°	675.2	685.6	711.6	729.4	730.2
42.5°	632.7	642.7	663.9	689.5	689.5
45°	587.6	597.6	617.1	645.3	648.7
47.5°	543.3	553.8	572.8	601.0	606.7
50°	500.0	509.5	528.6	555.9	564.6
52.5°	454.9	465.3	483.9	509.1	521.7
55°	411.5	418.5	438.8	463.1	476.6
57.5°	366.4	372.9	395.9	416.7	430.6
60°	323.1	331.3	349.1	370.3	386.4
62.5°	281.4	290.1	305.3	323.9	342.1
65°	241.1	247.6	262.4	281.0	297.0
67.5°	202.1	207.7	222.5	235.5	252.4
70°	162.6	170.0	180.8	193.4	204.2
72.5°	131.0	134.0	143.1	152.2	163.5
75°	96.7	101.9	109.3	114.5	121.0
77.5°	69.4	72.4	76.8	81.1	87.2
80°	46.4	47.7	51.6	52.5	57.2
82.5°	28.2	29.1	29.9	30.4	32.1
85°	15.2	15.2	15.2	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	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)