

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: P554188

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554188
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-LD4-1LO-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

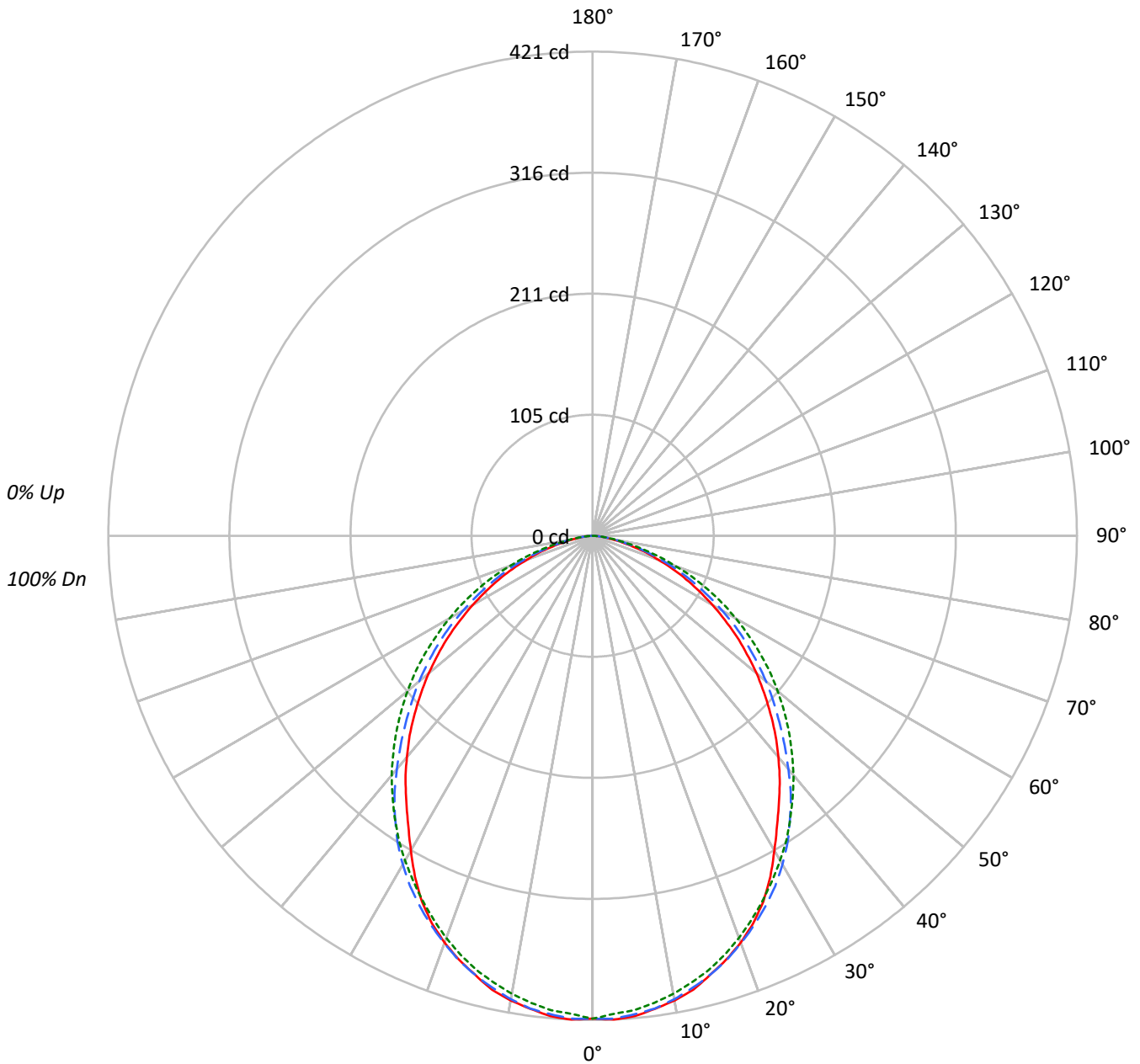
Lumens per Lamp: N/A
Luminaire Lumens: 971.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2260	2260	2260
5°	2266	2257	2237
10°	2242	2236	2210
15°	2202	2202	2177
20°	2156	2159	2131
25°	2084	2110	2077
30°	1963	2051	2026
35°	1855	1966	1969
40°	1765	1860	1909
45°	1664	1748	1837
50°	1557	1647	1758
55°	1437	1532	1664
60°	1294	1398	1547
65°	1142	1243	1407
70°	952	1059	1196
75°	749	846	936
80°	536	595	660
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	4.1
10°-20°	111.1	11.4
20°-30°	162.3	16.7
30°-40°	184.3	19.0
40°-50°	177.9	18.3
50°-60°	146.7	15.1
60°-70°	97.7	10.1
70°-80°	43.7	4.5
80°-90°	7.8	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°	312.9	32.2
0°-40°	497.2	51.2
0°-60°	821.8	84.6
0°-90°	971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	419	419	418	415	414	40
15°	395	396	395	394	391	111
25°	351	354	355	353	350	161
35°	282	286	299	301	300	177
45°	219	222	230	240	241	169
55°	153	156	163	172	177	137
65°	90	92	98	104	110	89
75°	36	38	41	43	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	419.9	419.9	419.9	419.9	419.9
2.5°	421.1	421.2	420.3	417.7	416.1
5°	419.4	419.3	417.7	415.4	414.1
7.5°	414.8	415.1	414.6	411.4	409.6
10°	410.3	410.4	409.1	406.5	404.4
12.5°	404.4	404.3	402.5	401.2	397.8
15°	395.2	396.2	395.2	393.5	390.7
17.5°	386.4	386.4	387.0	384.0	381.9
20°	376.4	376.9	376.9	374.4	372.0
22.5°	364.8	366.2	366.7	364.1	361.2
25°	351.0	353.8	355.4	352.8	349.8
27.5°	334.4	338.6	343.5	341.5	338.1
30°	315.9	322.0	330.1	328.5	326.0
32.5°	298.3	304.4	315.6	314.9	313.6
35°	282.3	286.2	299.3	300.9	299.7
37.5°	267.2	270.7	283.0	286.7	285.7
40°	251.2	255.1	264.7	271.4	271.7
42.5°	235.4	239.1	247.0	256.5	256.5
45°	218.6	222.3	229.6	240.1	241.3
47.5°	202.1	206.0	213.1	223.6	225.7
50°	186.0	189.6	196.7	206.8	210.0
52.5°	169.2	173.1	180.0	189.4	194.1
55°	153.1	155.7	163.3	172.3	177.3
57.5°	136.3	138.7	147.3	155.0	160.2
60°	120.2	123.3	129.9	137.8	143.7
62.5°	104.7	107.9	113.6	120.5	127.3
65°	89.7	92.1	97.6	104.5	110.5
67.5°	75.2	77.3	82.8	87.6	93.9
70°	60.5	63.2	67.3	72.0	76.0
72.5°	48.7	49.8	53.2	56.6	60.8
75°	36.0	37.9	40.7	42.6	45.0
77.5°	25.8	26.9	28.6	30.2	32.4
80°	17.3	17.7	19.2	19.5	21.3
82.5°	10.5	10.8	11.1	11.3	11.9
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	2.7	2.3	1.6
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)