

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: P554200

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554200
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-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

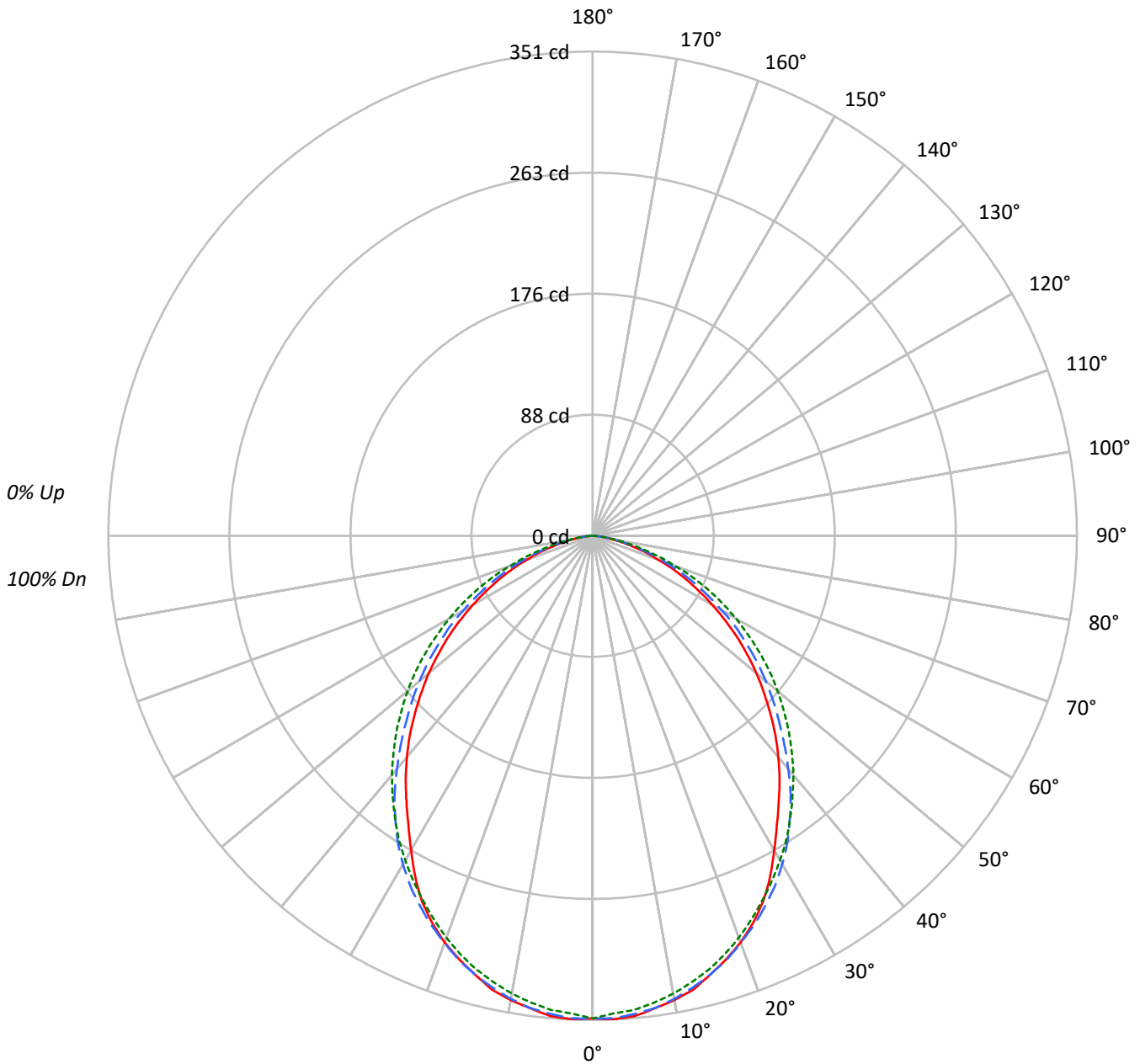
Lumens per Lamp: N/A
Luminaire Lumens: 809.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554200

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-88-EDD-90

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°	1883	1883	1883
5°	1888	1880	1864
10°	1868	1863	1842
15°	1835	1835	1814
20°	1796	1798	1775
25°	1737	1758	1730
30°	1636	1709	1688
35°	1545	1638	1641
40°	1470	1550	1590
45°	1386	1456	1531
50°	1298	1371	1465
55°	1197	1276	1386
60°	1077	1165	1290
65°	951	1035	1173
70°	793	881	996
75°	624	705	780
80°	446	496	549
85°	290	290	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	4.1
10°-20°	92.5	11.4
20°-30°	135.2	16.7
30°-40°	153.5	19.0
40°-50°	148.2	18.3
50°-60°	122.2	15.1
60°-70°	81.4	10.1
70°-80°	36.4	4.5
80°-90°	6.5	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°	260.7	32.2
0°-40°	414.2	51.2
0°-60°	684.6	84.6
0°-90°	809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	350	349	348	346	345	33
15°	329	330	329	328	326	93
25°	292	295	296	294	291	134
35°	235	238	249	251	250	147
45°	182	185	191	200	201	141
55°	128	130	136	144	148	114
65°	75	77	81	87	92	74
75°	30	32	34	36	38	33
85°	5	5	5	4	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	349.9	349.9	349.9	349.9	349.9
2.5°	350.8	350.9	350.1	348.0	346.6
5°	349.5	349.3	348.0	346.1	345.0
7.5°	345.6	345.8	345.4	342.7	341.3
10°	341.8	341.9	340.9	338.7	337.0
12.5°	337.0	336.8	335.4	334.3	331.5
15°	329.3	330.1	329.3	327.8	325.5
17.5°	321.9	321.9	322.5	319.9	318.2
20°	313.6	314.0	314.0	312.0	310.0
22.5°	303.9	305.1	305.5	303.4	300.9
25°	292.5	294.8	296.1	294.0	291.4
27.5°	278.6	282.1	286.2	284.5	281.7
30°	263.2	268.3	275.0	273.7	271.6
32.5°	248.5	253.6	262.9	262.4	261.3
35°	235.2	238.4	249.3	250.7	249.7
37.5°	222.6	225.5	235.8	238.8	238.0
40°	209.3	212.5	220.6	226.1	226.3
42.5°	196.1	199.2	205.8	213.7	213.7
45°	182.1	185.2	191.3	200.0	201.1
47.5°	168.4	171.6	177.6	186.3	188.0
50°	155.0	157.9	163.8	172.3	175.0
52.5°	141.0	144.2	150.0	157.8	161.7
55°	127.6	129.7	136.0	143.6	147.7
57.5°	113.6	115.6	122.7	129.2	133.5
60°	100.1	102.7	108.2	114.8	119.8
62.5°	87.2	89.9	94.6	100.4	106.1
65°	74.7	76.7	81.3	87.1	92.1
67.5°	62.6	64.4	69.0	73.0	78.2
70°	50.4	52.7	56.0	59.9	63.3
72.5°	40.6	41.5	44.4	47.2	50.7
75°	30.0	31.6	33.9	35.5	37.5
77.5°	21.5	22.4	23.8	25.1	27.0
80°	14.4	14.8	16.0	16.3	17.7
82.5°	8.7	9.0	9.3	9.4	9.9
85°	4.7	4.7	4.7	4.4	4.4
87.5°	2.7	2.7	2.3	1.9	1.3
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)