

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: P554205

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-96-EDD**

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: P554205
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-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

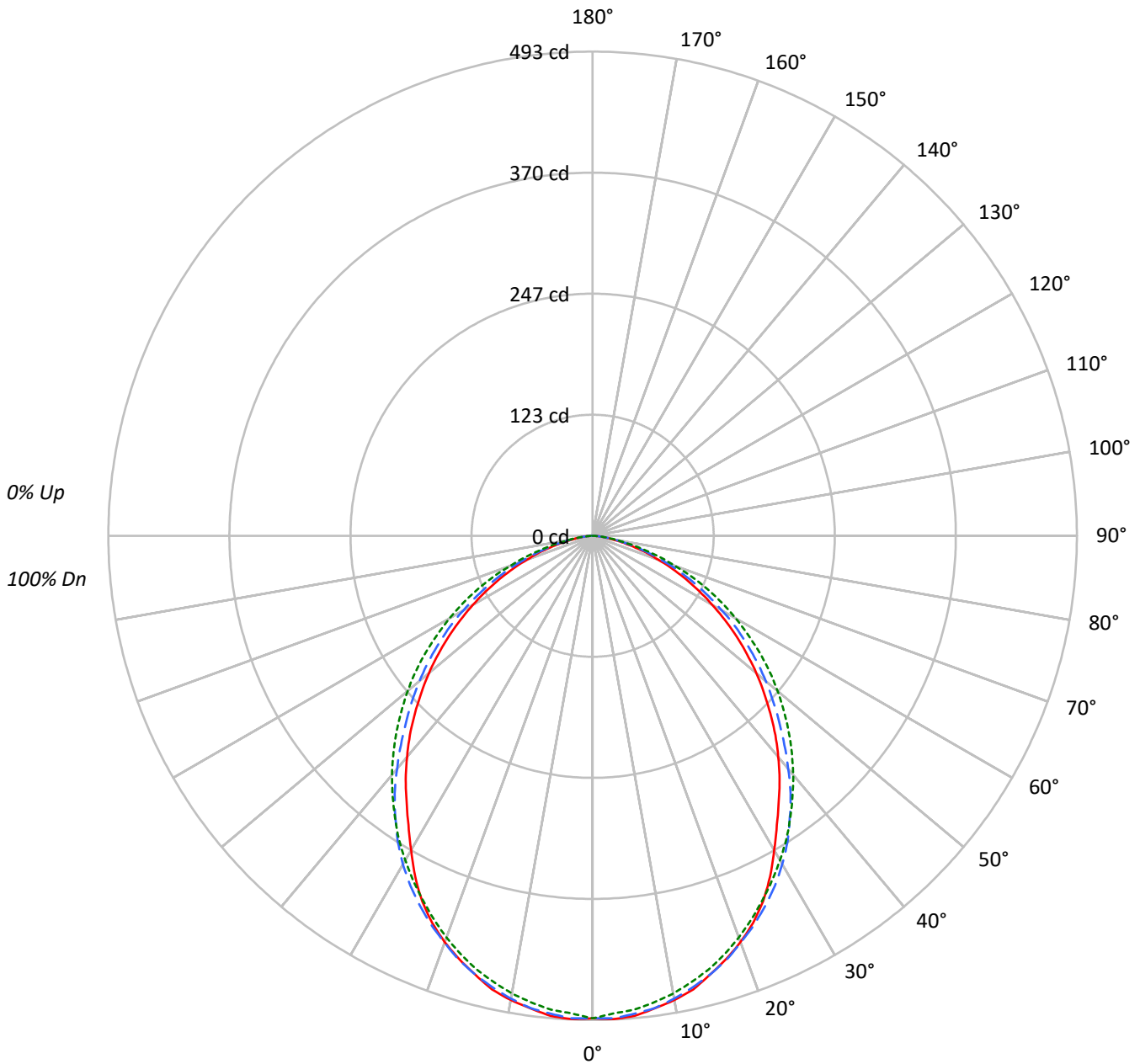
Lumens per Lamp: N/A
Luminaire Lumens: 1136.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554205

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554205

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-96-EDD

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°	2644	2644	2644
5°	2651	2640	2618
10°	2623	2616	2586
15°	2576	2576	2547
20°	2522	2525	2493
25°	2439	2469	2430
30°	2297	2400	2370
35°	2170	2300	2304
40°	2065	2176	2233
45°	1946	2044	2149
50°	1822	1927	2057
55°	1681	1792	1946
60°	1513	1635	1810
65°	1336	1454	1647
70°	1114	1238	1399
75°	875	990	1096
80°	626	697	772
85°	408	408	383



TEST NUMBER: P554205

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	4.1
10°-20°	129.9	11.4
20°-30°	189.9	16.7
30°-40°	215.6	19.0
40°-50°	208.1	18.3
50°-60°	171.7	15.1
60°-70°	114.3	10.1
70°-80°	51.2	4.5
80°-90°	9.1	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°	366.1	32.2
0°-40°	581.7	51.2
0°-60°	961.4	84.6
0°-90°	1136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	490	489	486	484	46
15°	462	464	462	460	457	130
25°	411	414	416	413	409	188
35°	330	335	350	352	351	207
45°	256	260	269	281	282	197
55°	179	182	191	202	207	160
65°	105	108	114	122	129	104
75°	42	44	48	50	53	46
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



TEST NUMBER: P554205

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.3	491.3	491.3	491.3	491.3
2.5°	492.6	492.8	491.7	488.6	486.8
5°	490.7	490.5	488.6	486.0	484.5
7.5°	485.3	485.6	485.1	481.3	479.2
10°	480.0	480.2	478.6	475.6	473.2
12.5°	473.2	473.0	470.9	469.4	465.4
15°	462.4	463.5	462.4	460.3	457.1
17.5°	452.0	452.0	452.8	449.2	446.7
20°	440.3	440.9	440.9	438.1	435.2
22.5°	426.7	428.4	429.0	426.0	422.6
25°	410.7	413.9	415.8	412.8	409.2
27.5°	391.3	396.2	401.8	399.6	395.6
30°	369.6	376.7	386.2	384.3	381.4
32.5°	349.0	356.2	369.2	368.4	366.9
35°	330.3	334.8	350.1	352.0	350.7
37.5°	312.6	316.7	331.1	335.4	334.3
40°	293.9	298.4	309.7	317.5	317.8
42.5°	275.4	279.7	289.0	300.1	300.1
45°	255.7	260.1	268.6	280.8	282.4
47.5°	236.5	241.0	249.3	261.6	264.0
50°	217.6	221.8	230.1	242.0	245.7
52.5°	198.0	202.5	210.6	221.6	227.1
55°	179.1	182.1	191.0	201.6	207.4
57.5°	159.5	162.3	172.3	181.4	187.4
60°	140.6	144.2	151.9	161.2	168.2
62.5°	122.5	126.3	132.9	141.0	148.9
65°	104.9	107.8	114.2	122.3	129.3
67.5°	88.0	90.4	96.8	102.5	109.8
70°	70.8	74.0	78.7	84.2	88.9
72.5°	57.0	58.3	62.3	66.2	71.2
75°	42.1	44.4	47.6	49.8	52.7
77.5°	30.2	31.5	33.4	35.3	37.9
80°	20.2	20.8	22.5	22.8	24.9
82.5°	12.3	12.6	13.0	13.2	14.0
85°	6.6	6.6	6.6	6.2	6.2
87.5°	3.8	3.8	3.2	2.6	1.9
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)