

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: P554163

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-85-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: P554163
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

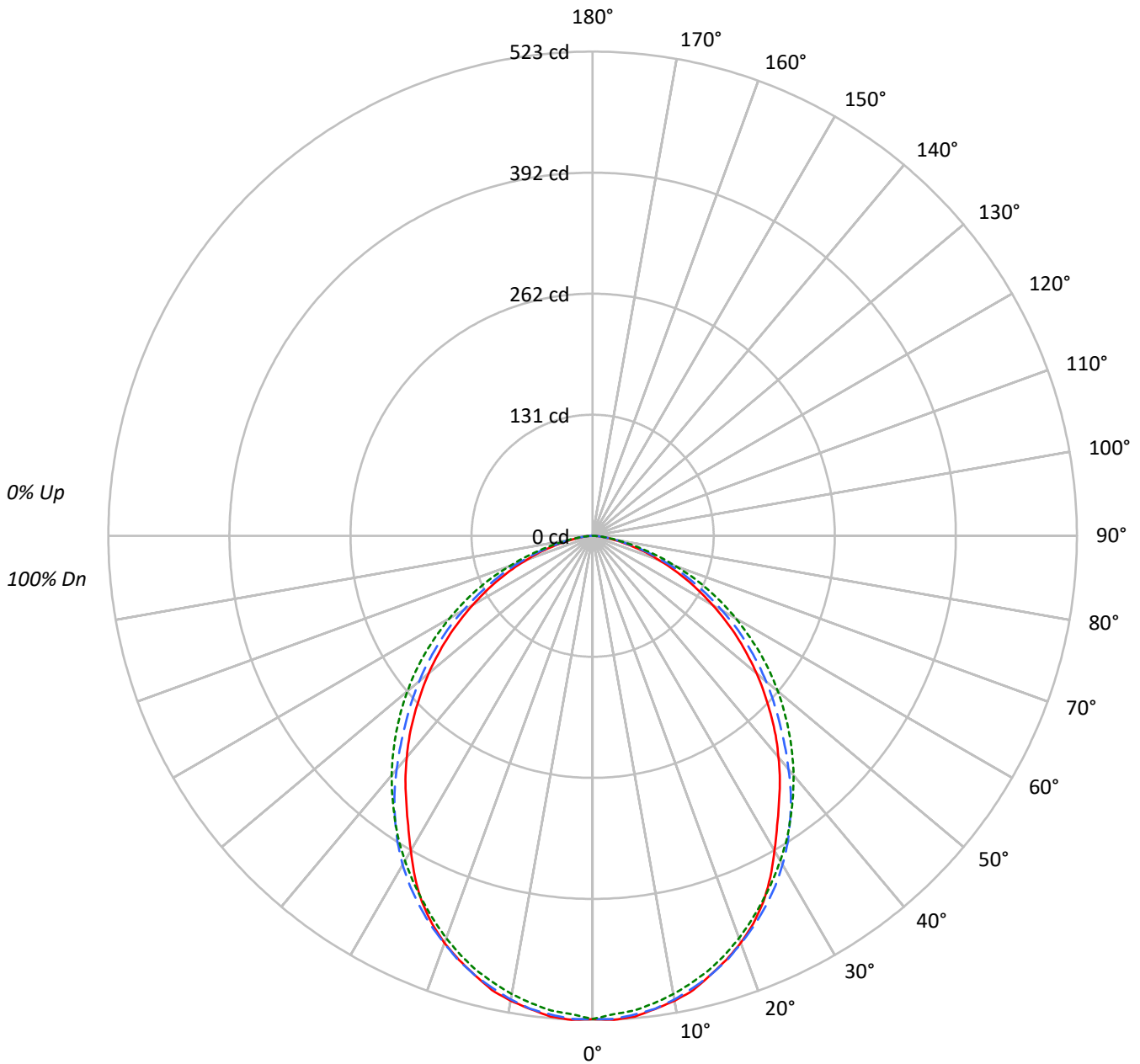
Lumens per Lamp: N/A
Luminaire Lumens: 1207.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554163

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554163

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-85-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°	2809	2809	2809
5°	2817	2805	2781
10°	2787	2779	2747
15°	2737	2737	2706
20°	2680	2683	2648
25°	2591	2624	2582
30°	2440	2550	2519
35°	2305	2444	2448
40°	2193	2312	2373
45°	2068	2172	2283
50°	1936	2047	2186
55°	1786	1904	2068
60°	1608	1737	1924
65°	1420	1545	1750
70°	1183	1316	1487
75°	930	1050	1162
80°	666	741	821
85°	432	432	408



TEST NUMBER: P554163

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	4.1
10°-20°	138.1	11.4
20°-30°	201.8	16.7
30°-40°	229.0	19.0
40°-50°	221.1	18.3
50°-60°	182.4	15.1
60°-70°	121.5	10.1
70°-80°	54.3	4.5
80°-90°	9.7	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°	389.0	32.2
0°-40°	618.0	51.2
0°-60°	1021.5	84.6
0°-90°	1207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	521	521	519	516	515	49
15°	491	492	491	489	486	139
25°	436	440	442	439	435	200
35°	351	356	372	374	373	220
45°	272	276	285	298	300	210
55°	190	194	203	214	220	170
65°	112	114	121	130	137	111
75°	45	47	50	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



TEST NUMBER: P554163

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.0	522.0	522.0	522.0	522.0
2.5°	523.4	523.6	522.4	519.2	517.2
5°	521.4	521.2	519.2	516.4	514.8
7.5°	515.6	516.0	515.4	511.4	509.2
10°	510.0	510.2	508.6	505.4	502.7
12.5°	502.7	502.5	500.3	498.7	494.5
15°	491.3	492.5	491.3	489.1	485.7
17.5°	480.3	480.3	481.1	477.3	474.7
20°	467.9	468.5	468.5	465.4	462.4
22.5°	453.4	455.2	455.8	452.6	449.0
25°	436.4	439.8	441.8	438.6	434.8
27.5°	415.7	420.9	426.9	424.5	420.3
30°	392.7	400.3	410.3	408.3	405.3
32.5°	370.8	378.4	392.2	391.4	389.8
35°	350.9	355.8	372.0	374.0	372.6
37.5°	332.1	336.5	351.7	356.4	355.2
40°	312.2	317.0	329.1	337.3	337.7
42.5°	292.6	297.2	307.0	318.9	318.9
45°	271.7	276.3	285.4	298.4	300.0
47.5°	251.3	256.1	264.9	277.9	280.6
50°	231.2	235.6	244.5	257.1	261.1
52.5°	210.4	215.2	223.8	235.4	241.2
55°	190.3	193.5	202.9	214.2	220.4
57.5°	169.5	172.5	183.1	192.7	199.1
60°	149.4	153.2	161.4	171.3	178.7
62.5°	130.1	134.2	141.2	149.8	158.2
65°	111.5	114.5	121.3	129.9	137.4
67.5°	93.4	96.1	102.9	108.9	116.7
70°	75.2	78.6	83.6	89.4	94.5
72.5°	60.6	62.0	66.2	70.4	75.6
75°	44.7	47.1	50.5	52.9	55.9
77.5°	32.1	33.5	35.5	37.5	40.3
80°	21.5	22.1	23.9	24.3	26.5
82.5°	13.0	13.4	13.8	14.0	14.8
85°	7.0	7.0	7.0	6.6	6.6
87.5°	4.0	4.0	3.4	2.8	2.0
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)