

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: P554357

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-86-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: P554357
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-LD4-1STD-30-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

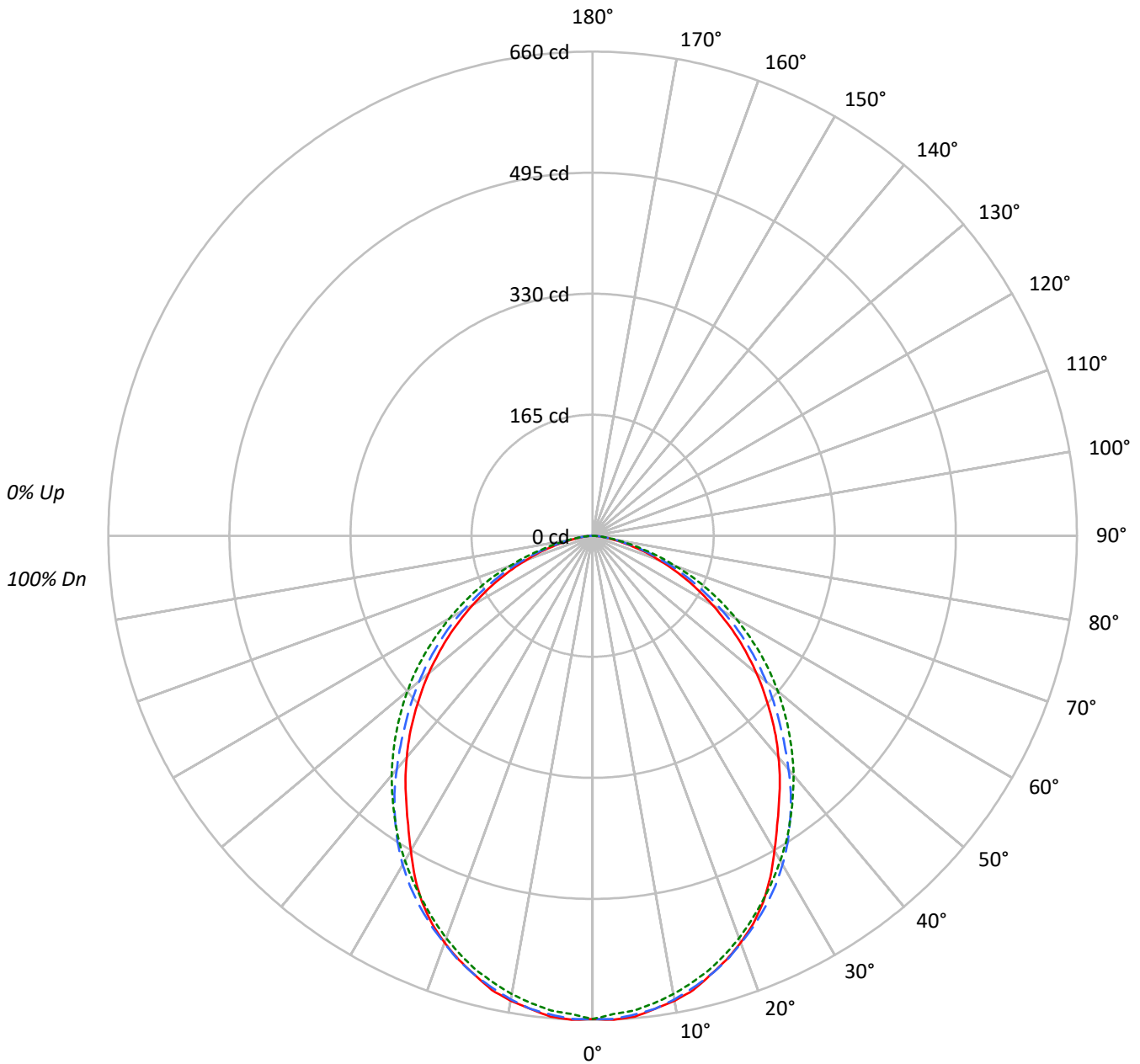
Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554357

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-86-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554357

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-86-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°	3545	3545	3545
5°	3554	3539	3509
10°	3517	3507	3467
15°	3454	3454	3415
20°	3381	3385	3342
25°	3270	3310	3258
30°	3079	3217	3178
35°	2909	3084	3089
40°	2768	2917	2994
45°	2610	2741	2881
50°	2443	2583	2759
55°	2253	2403	2609
60°	2029	2193	2427
65°	1792	1950	2207
70°	1493	1660	1876
75°	1173	1327	1468
80°	840	933	1035
85°	550	550	519



TEST NUMBER: P554357

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	4.1
10°-20°	174.2	11.4
20°-30°	254.6	16.7
30°-40°	289.0	19.0
40°-50°	279.0	18.3
50°-60°	230.1	15.1
60°-70°	153.2	10.1
70°-80°	68.6	4.5
80°-90°	12.3	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°	490.8	32.2
0°-40°	779.8	51.2
0°-60°	1288.9	84.6
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	658	658	655	652	650	62
15°	620	622	620	617	613	175
25°	551	555	557	553	549	252
35°	443	449	469	472	470	277
45°	343	349	360	376	378	265
55°	240	244	256	270	278	214
65°	141	144	153	164	173	139
75°	56	60	64	67	71	62
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



TEST NUMBER: P554357

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-80-86-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.7	658.7	658.7	658.7	658.7
2.5°	660.4	660.7	659.2	655.1	652.6
5°	657.9	657.6	655.1	651.6	649.5
7.5°	650.6	651.1	650.3	645.2	642.5
10°	643.5	643.7	641.7	637.7	634.4
12.5°	634.4	634.1	631.3	629.3	624.0
15°	619.9	621.5	619.9	617.2	612.9
17.5°	606.0	606.0	607.0	602.2	598.9
20°	590.3	591.1	591.1	587.3	583.5
22.5°	572.1	574.4	575.2	571.1	566.6
25°	550.6	554.9	557.4	553.4	548.6
27.5°	524.5	531.1	538.7	535.7	530.4
30°	495.4	505.1	517.7	515.2	511.4
32.5°	467.9	477.5	494.9	493.9	491.9
35°	442.8	448.9	469.4	471.9	470.1
37.5°	419.0	424.6	443.8	449.6	448.1
40°	394.0	400.1	415.2	425.6	426.1
42.5°	369.2	375.0	387.4	402.3	402.3
45°	342.9	348.7	360.1	376.5	378.5
47.5°	317.1	323.1	334.3	350.7	354.0
50°	291.8	297.3	308.5	324.4	329.5
52.5°	265.4	271.5	282.4	297.1	304.4
55°	240.1	244.2	256.1	270.2	278.1
57.5°	213.8	217.6	231.0	243.2	251.3
60°	188.5	193.3	203.7	216.1	225.5
62.5°	164.2	169.3	178.1	189.0	199.6
65°	140.7	144.5	153.1	164.0	173.3
67.5°	117.9	121.2	129.8	137.4	147.3
70°	94.9	99.2	105.5	112.9	119.2
72.5°	76.4	78.2	83.5	88.8	95.4
75°	56.4	59.5	63.8	66.8	70.6
77.5°	40.5	42.3	44.8	47.3	50.9
80°	27.1	27.8	30.1	30.6	33.4
82.5°	16.4	17.0	17.5	17.7	18.7
85°	8.9	8.9	8.9	8.4	8.4
87.5°	5.1	5.1	4.3	3.5	2.5
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)