

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: P554384

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-84-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: P554384
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

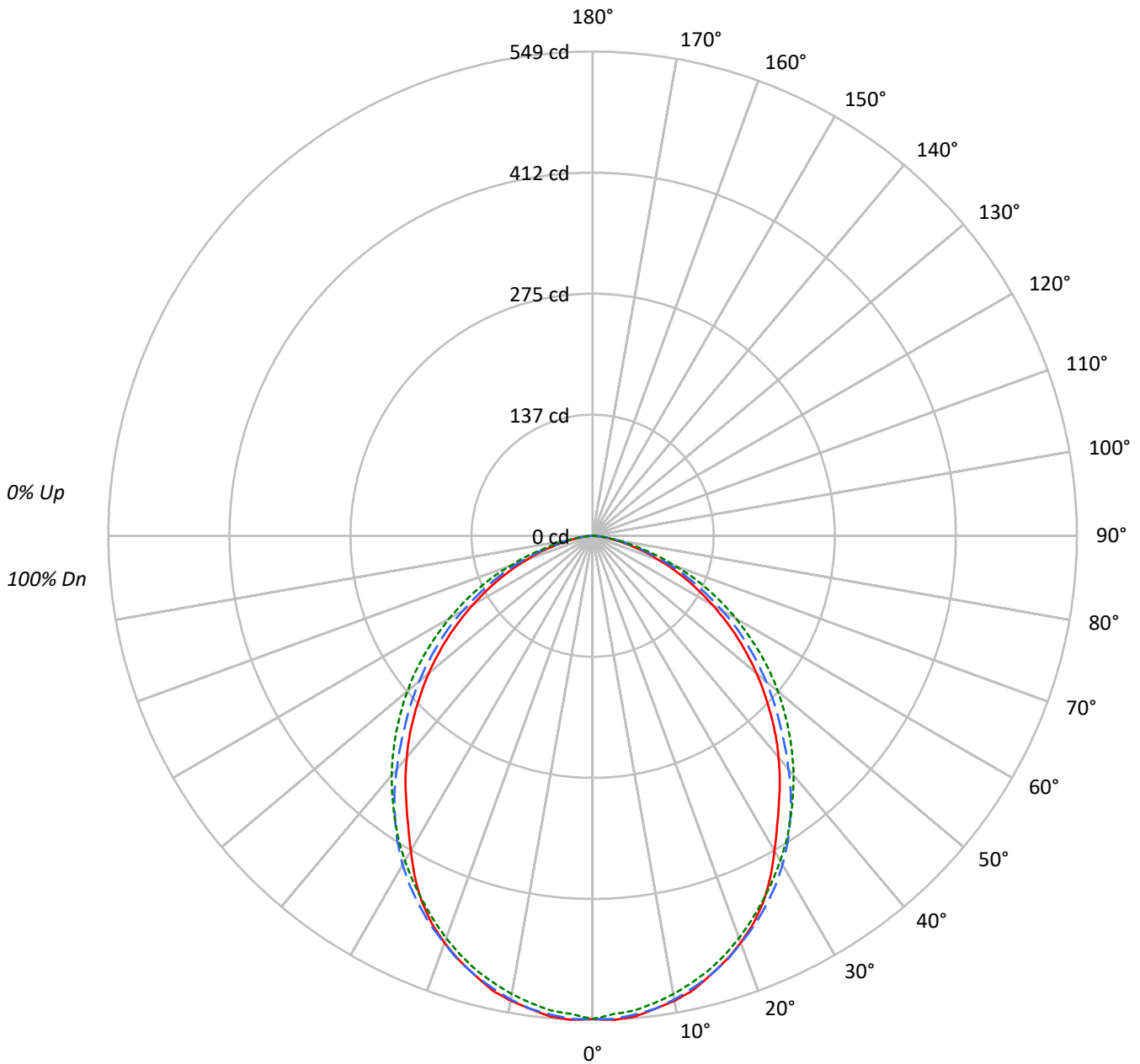
Lumens per Lamp: N/A
Luminaire Lumens: 1267.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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: P554384

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554384

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-84-EDD-90

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°	2949	2949	2949
5°	2957	2944	2920
10°	2925	2917	2884
15°	2873	2873	2841
20°	2813	2816	2780
25°	2720	2754	2710
30°	2562	2677	2644
35°	2420	2566	2570
40°	2303	2427	2491
45°	2171	2280	2397
50°	2032	2148	2295
55°	1875	1999	2170
60°	1688	1824	2019
65°	1490	1622	1836
70°	1242	1382	1559
75°	975	1102	1221
80°	697	778	862
85°	457	457	426



TEST NUMBER: P554384

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	4.1
10°-20°	144.9	11.4
20°-30°	211.8	16.7
30°-40°	240.4	19.0
40°-50°	232.1	18.3
50°-60°	191.4	15.1
60°-70°	127.5	10.1
70°-80°	57.1	4.5
80°-90°	10.2	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°	408.3	32.2
0°-40°	648.7	51.2
0°-60°	1072.2	84.6
0°-90°	1267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	547	547	545	542	540	52
15°	516	517	516	513	510	145
25°	458	462	464	460	456	210
35°	368	373	390	393	391	231
45°	285	290	300	313	315	220
55°	200	203	213	225	231	178
65°	117	120	127	136	144	116
75°	47	50	53	56	59	51
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



TEST NUMBER: P554384

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.9	547.9	547.9	547.9	547.9
2.5°	549.4	549.6	548.4	545.0	542.9
5°	547.3	547.1	545.0	542.1	540.4
7.5°	541.2	541.6	541.0	536.8	534.5
10°	535.3	535.5	533.8	530.5	527.7
12.5°	527.7	527.5	525.2	523.5	519.1
15°	515.7	517.0	515.7	513.4	509.8
17.5°	504.2	504.2	505.0	501.0	498.3
20°	491.1	491.7	491.7	488.6	485.4
22.5°	476.0	477.8	478.5	475.1	471.3
25°	458.1	461.6	463.7	460.4	456.4
27.5°	436.4	441.9	448.2	445.6	441.2
30°	412.2	420.2	430.7	428.6	425.4
32.5°	389.2	397.2	411.7	410.9	409.2
35°	368.4	373.4	390.5	392.6	391.1
37.5°	348.6	353.2	369.2	374.1	372.8
40°	327.8	332.8	345.4	354.1	354.5
42.5°	307.1	312.0	322.3	334.7	334.7
45°	285.2	290.1	299.5	313.2	314.9
47.5°	263.8	268.8	278.1	291.8	294.5
50°	242.7	247.3	256.6	269.9	274.1
52.5°	220.8	225.9	234.9	247.1	253.2
55°	199.8	203.1	213.0	224.8	231.3
57.5°	177.9	181.0	192.2	202.3	209.0
60°	156.8	160.8	169.5	179.8	187.6
62.5°	136.6	140.8	148.2	157.2	166.1
65°	117.0	120.2	127.4	136.4	144.2
67.5°	98.1	100.8	108.0	114.3	122.5
70°	78.9	82.5	87.8	93.9	99.1
72.5°	63.6	65.0	69.5	73.9	79.4
75°	46.9	49.5	53.0	55.6	58.7
77.5°	33.7	35.2	37.3	39.4	42.3
80°	22.5	23.2	25.1	25.5	27.8
82.5°	13.7	14.1	14.5	14.7	15.6
85°	7.4	7.4	7.4	6.9	6.9
87.5°	4.2	4.2	3.6	2.9	2.1
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)