

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: P554315

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-94-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: P554315
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-50-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

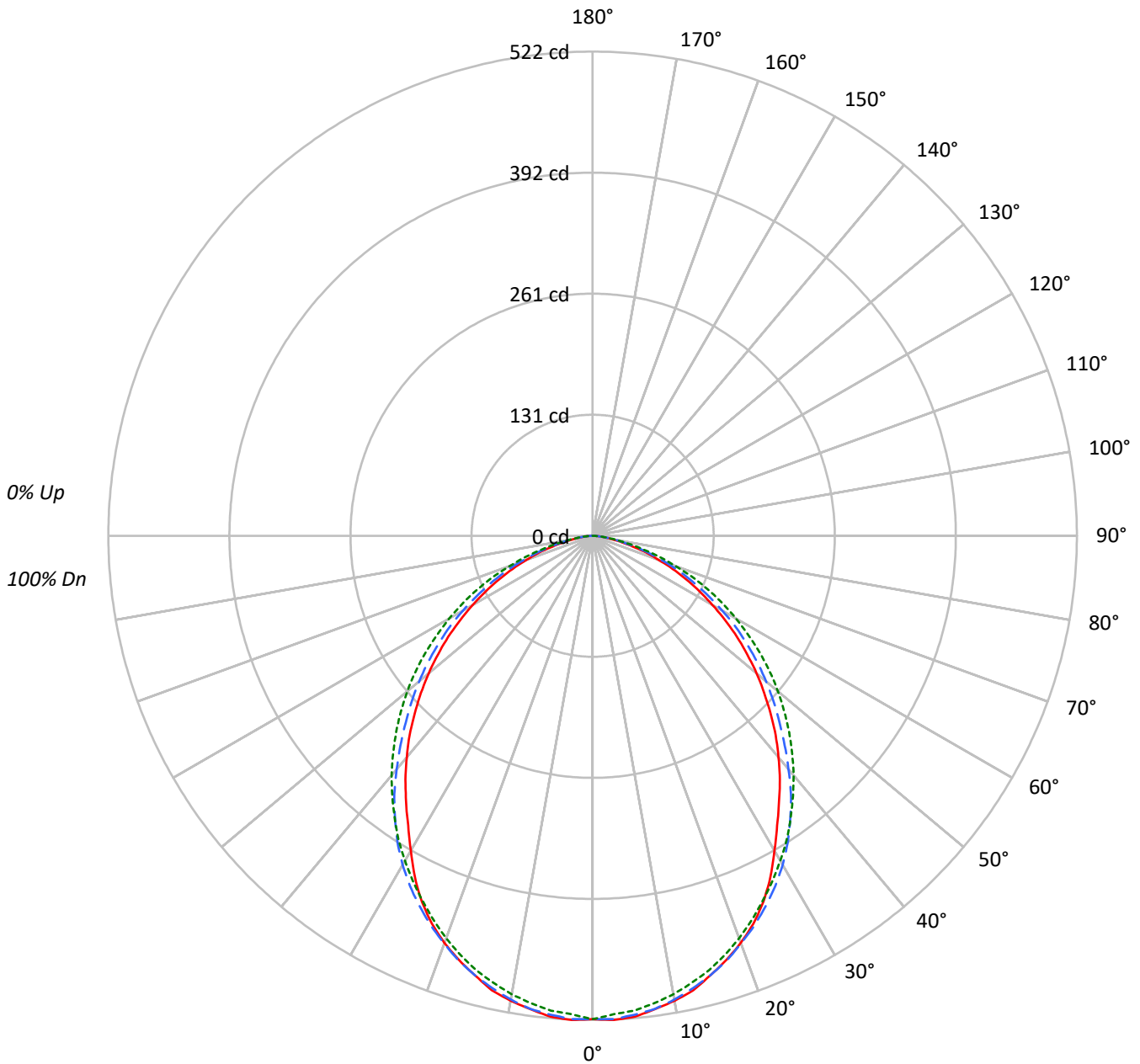
Lumens per Lamp: N/A
Luminaire Lumens: 1205.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2805	2805	2805
5°	2812	2800	2776
10°	2782	2775	2743
15°	2733	2733	2702
20°	2675	2679	2644
25°	2587	2619	2577
30°	2436	2545	2514
35°	2302	2440	2444
40°	2190	2308	2368
45°	2065	2168	2280
50°	1932	2043	2183
55°	1783	1901	2064
60°	1606	1735	1920
65°	1417	1542	1746
70°	1182	1314	1484
75°	927	1050	1162
80°	663	738	818
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	4.1
10°-20°	137.8	11.4
20°-30°	201.4	16.7
30°-40°	228.6	19.0
40°-50°	220.7	18.3
50°-60°	182.1	15.1
60°-70°	121.2	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°	388.3	32.2
0°-40°	617.0	51.2
0°-60°	1019.8	84.6
0°-90°	1205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	520	520	518	516	514	49
15°	490	492	490	488	485	138
25°	436	439	441	438	434	200
35°	350	355	371	373	372	220
45°	271	276	285	298	300	209
55°	190	193	203	214	220	170
65°	111	114	121	130	137	110
75°	45	47	50	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.1	521.1	521.1	521.1	521.1
2.5°	522.5	522.7	521.5	518.3	516.3
5°	520.5	520.3	518.3	515.5	513.9
7.5°	514.7	515.1	514.5	510.5	508.3
10°	509.1	509.3	507.7	504.5	501.9
12.5°	501.9	501.7	499.5	497.9	493.7
15°	490.5	491.7	490.5	488.3	484.9
17.5°	479.5	479.5	480.3	476.5	473.9
20°	467.1	467.7	467.7	464.7	461.7
22.5°	452.7	454.5	455.1	451.9	448.3
25°	435.6	439.0	441.0	437.8	434.0
27.5°	415.0	420.2	426.2	423.8	419.6
30°	392.0	399.6	409.6	407.6	404.6
32.5°	370.2	377.8	391.6	390.8	389.2
35°	350.4	355.2	371.4	373.4	372.0
37.5°	331.5	335.9	351.2	355.8	354.6
40°	311.7	316.5	328.5	336.7	337.1
42.5°	292.1	296.7	306.5	318.3	318.3
45°	271.3	275.9	284.9	297.9	299.5
47.5°	250.9	255.7	264.5	277.5	280.1
50°	230.8	235.2	244.0	256.7	260.7
52.5°	210.0	214.8	223.4	235.0	240.8
55°	190.0	193.2	202.6	213.8	220.0
57.5°	169.2	172.2	182.8	192.4	198.8
60°	149.2	153.0	161.2	171.0	178.4
62.5°	129.9	133.9	140.9	149.6	158.0
65°	111.3	114.3	121.1	129.7	137.1
67.5°	93.3	95.9	102.7	108.7	116.5
70°	75.1	78.5	83.5	89.3	94.3
72.5°	60.5	61.9	66.1	70.3	75.5
75°	44.6	47.0	50.5	52.9	55.9
77.5°	32.0	33.4	35.4	37.4	40.2
80°	21.4	22.0	23.8	24.2	26.4
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)