

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: P554147

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-93-85-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: P554147
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-30-UNV-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

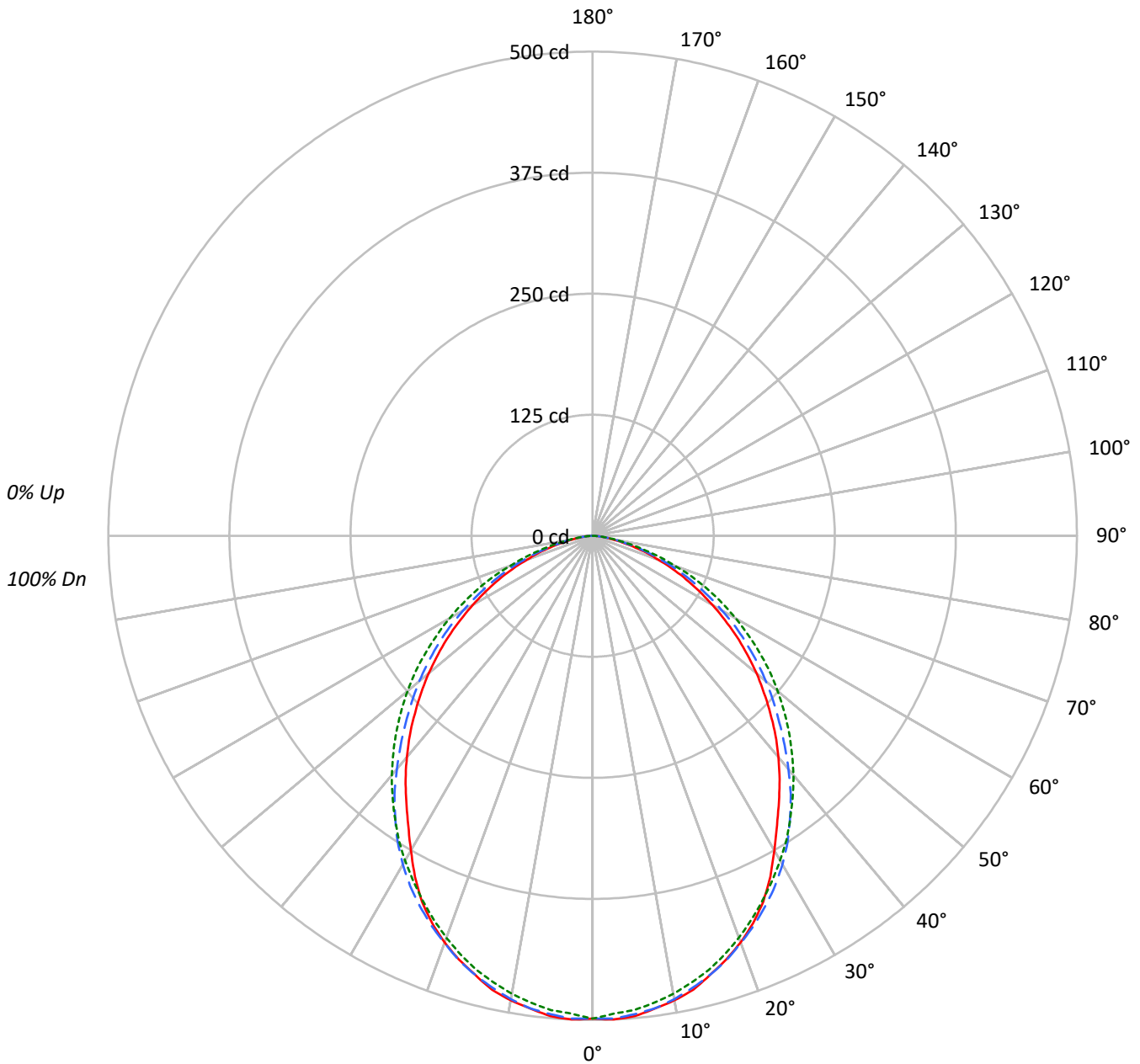
Lumens per Lamp: N/A
Luminaire Lumens: 1153.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2683	2683	2683
5°	2691	2680	2656
10°	2662	2655	2625
15°	2615	2615	2585
20°	2560	2563	2530
25°	2475	2506	2466
30°	2331	2435	2406
35°	2202	2335	2338
40°	2096	2209	2266
45°	1976	2075	2181
50°	1850	1955	2088
55°	1706	1819	1975
60°	1536	1660	1837
65°	1356	1476	1671
70°	1130	1257	1419
75°	888	1004	1110
80°	635	707	784
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	4.1
10°-20°	131.9	11.4
20°-30°	192.7	16.7
30°-40°	218.8	19.0
40°-50°	211.2	18.3
50°-60°	174.2	15.1
60°-70°	116.0	10.1
70°-80°	51.9	4.5
80°-90°	9.3	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°	371.6	32.2
0°-40°	590.4	51.2
0°-60°	975.8	84.6
0°-90°	1153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	498	498	496	493	492	47
15°	469	470	469	467	464	132
25°	417	420	422	419	415	191
35°	335	340	355	357	356	210
45°	260	264	273	285	287	200
55°	182	185	194	205	210	162
65°	106	109	116	124	131	106
75°	43	45	48	51	53	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.6	498.6	498.6	498.6	498.6
2.5°	500.0	500.2	499.0	496.0	494.0
5°	498.1	497.9	496.0	493.3	491.7
7.5°	492.5	492.9	492.3	488.5	486.4
10°	487.1	487.3	485.8	482.7	480.3
12.5°	480.3	480.1	478.0	476.4	472.4
15°	469.3	470.5	469.3	467.2	464.0
17.5°	458.8	458.8	459.6	455.9	453.4
20°	446.9	447.5	447.5	444.6	441.7
22.5°	433.1	434.9	435.4	432.4	428.9
25°	416.8	420.1	422.0	419.0	415.3
27.5°	397.1	402.1	407.8	405.5	401.5
30°	375.1	382.4	391.9	390.0	387.2
32.5°	354.2	361.5	374.7	373.9	372.4
35°	335.2	339.8	355.4	357.3	355.9
37.5°	317.2	321.4	336.0	340.4	339.3
40°	298.3	302.9	314.4	322.2	322.6
42.5°	279.5	283.9	293.3	304.6	304.6
45°	259.6	264.0	272.6	285.0	286.6
47.5°	240.0	244.6	253.1	265.5	268.0
50°	220.9	225.1	233.5	245.6	249.4
52.5°	201.0	205.5	213.8	224.9	230.5
55°	181.8	184.9	193.9	204.6	210.5
57.5°	161.9	164.7	174.9	184.1	190.2
60°	142.7	146.4	154.2	163.6	170.7
62.5°	124.3	128.2	134.9	143.1	151.1
65°	106.5	109.4	115.9	124.1	131.2
67.5°	89.3	91.8	98.3	104.0	111.5
70°	71.8	75.1	79.9	85.4	90.2
72.5°	57.9	59.2	63.2	67.2	72.2
75°	42.7	45.0	48.3	50.6	53.4
77.5°	30.7	32.0	33.9	35.8	38.5
80°	20.5	21.1	22.8	23.2	25.3
82.5°	12.5	12.8	13.2	13.4	14.2
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.3	2.7	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)