

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: P554211

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554211
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-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

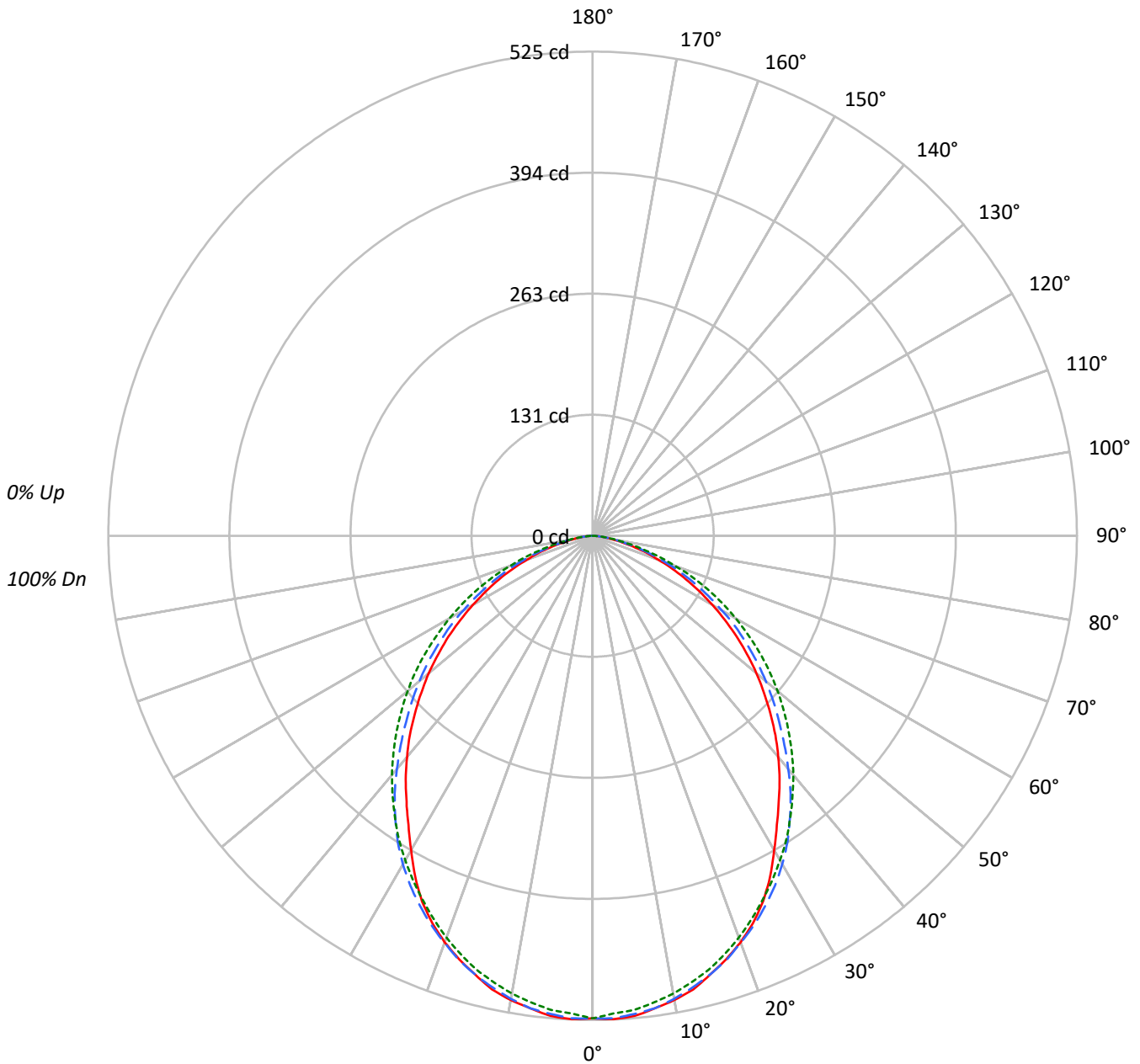
Lumens per Lamp: N/A
Luminaire Lumens: 1210.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2816	2816	2816
5°	2824	2812	2788
10°	2794	2786	2754
15°	2744	2744	2713
20°	2686	2690	2655
25°	2598	2630	2588
30°	2446	2556	2525
35°	2311	2450	2454
40°	2199	2318	2378
45°	2073	2178	2289
50°	1941	2052	2191
55°	1790	1909	2073
60°	1612	1742	1928
65°	1424	1549	1754
70°	1186	1319	1490
75°	932	1054	1167
80°	666	741	821
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	4.1
10°-20°	138.4	11.4
20°-30°	202.3	16.7
30°-40°	229.6	19.0
40°-50°	221.6	18.3
50°-60°	182.8	15.1
60°-70°	121.8	10.1
70°-80°	54.5	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°	389.9	32.2
0°-40°	619.5	51.2
0°-60°	1024.0	84.6
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	522	520	518	516	49
15°	492	494	492	490	487	139
25°	438	441	443	440	436	200
35°	352	357	373	375	374	220
45°	272	277	286	299	301	210
55°	191	194	203	215	221	170
65°	112	115	122	130	138	111
75°	45	47	51	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°	523.3	523.3	523.3	523.3	523.3
2.5°	524.7	524.9	523.7	520.5	518.5
5°	522.7	522.5	520.5	517.7	516.1
7.5°	516.9	517.3	516.7	512.6	510.4
10°	511.2	511.4	509.8	506.6	504.0
12.5°	504.0	503.8	501.6	500.0	495.8
15°	492.5	493.7	492.5	490.3	486.9
17.5°	481.5	481.5	482.3	478.5	475.8
20°	469.0	469.6	469.6	466.6	463.6
22.5°	454.5	456.3	457.0	453.7	450.1
25°	437.5	440.9	442.9	439.7	435.8
27.5°	416.7	422.0	428.0	425.6	421.4
30°	393.6	401.3	411.3	409.3	406.3
32.5°	371.7	379.4	393.2	392.4	390.8
35°	351.8	356.6	372.9	374.9	373.5
37.5°	332.9	337.3	352.6	357.2	356.0
40°	313.0	317.8	329.9	338.1	338.5
42.5°	293.3	297.9	307.8	319.6	319.6
45°	272.4	277.0	286.1	299.1	300.7
47.5°	251.9	256.7	265.6	278.6	281.2
50°	231.8	236.2	245.1	257.7	261.7
52.5°	210.9	215.7	224.4	236.0	241.8
55°	190.8	194.0	203.4	214.7	220.9
57.5°	169.9	172.9	183.5	193.2	199.6
60°	149.8	153.6	161.8	171.7	179.1
62.5°	130.5	134.5	141.5	150.2	158.6
65°	111.8	114.8	121.6	130.3	137.7
67.5°	93.7	96.3	103.1	109.2	117.0
70°	75.4	78.8	83.8	89.7	94.7
72.5°	60.7	62.1	66.3	70.6	75.8
75°	44.8	47.2	50.7	53.1	56.1
77.5°	32.2	33.6	35.6	37.6	40.4
80°	21.5	22.1	23.9	24.3	26.5
82.5°	13.1	13.5	13.9	14.1	14.9
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)