

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: P554361

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-88-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: P554361
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

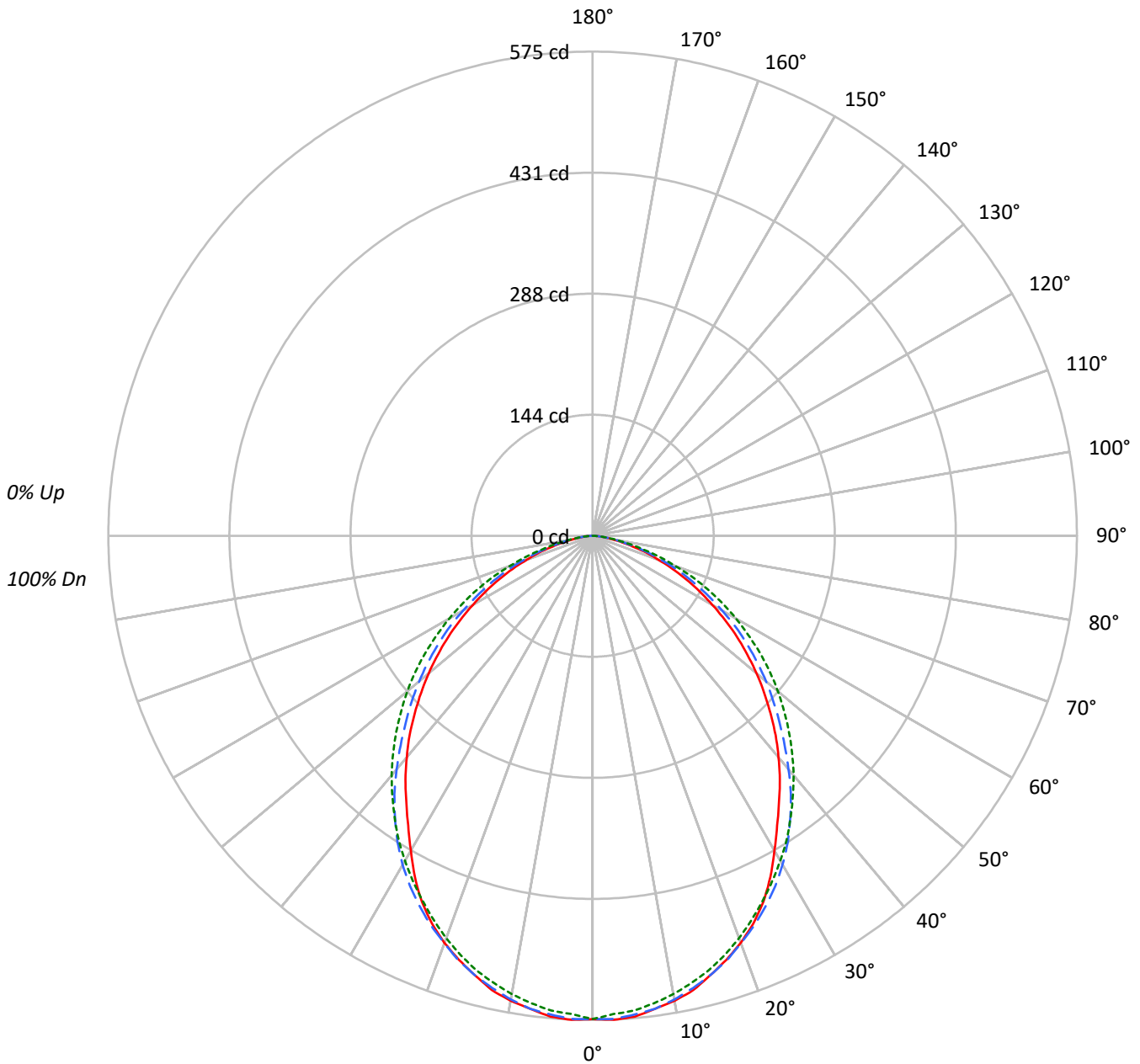
Lumens per Lamp: N/A
Luminaire Lumens: 1327.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3089	3089	3089
5°	3097	3084	3058
10°	3064	3055	3020
15°	3010	3010	2975
20°	2946	2950	2912
25°	2849	2884	2839
30°	2683	2803	2769
35°	2535	2687	2691
40°	2412	2542	2609
45°	2273	2388	2510
50°	2128	2251	2404
55°	1963	2093	2274
60°	1769	1911	2114
65°	1561	1699	1923
70°	1301	1446	1633
75°	1023	1156	1279
80°	731	812	902
85°	475	475	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	4.1
10°-20°	151.8	11.4
20°-30°	221.8	16.7
30°-40°	251.8	19.0
40°-50°	243.1	18.3
50°-60°	200.5	15.1
60°-70°	133.5	10.1
70°-80°	59.7	4.5
80°-90°	10.7	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°	427.7	32.2
0°-40°	679.4	51.2
0°-60°	1123.0	84.6
0°-90°	1327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	573	573	571	568	566	54
15°	540	542	540	538	534	152
25°	480	484	486	482	478	220
35°	386	391	409	411	410	242
45°	299	304	314	328	330	231
55°	209	213	223	236	242	187
65°	123	126	133	143	151	122
75°	49	52	56	58	62	54
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.9	573.9	573.9	573.9	573.9
2.5°	575.4	575.7	574.3	570.8	568.6
5°	573.2	573.0	570.8	567.7	566.0
7.5°	566.8	567.3	566.6	562.2	559.8
10°	560.7	560.9	559.1	555.6	552.7
12.5°	552.7	552.5	550.1	548.3	543.7
15°	540.2	541.5	540.2	537.7	534.0
17.5°	528.0	528.0	528.9	524.7	521.9
20°	514.4	515.0	515.0	511.7	508.4
22.5°	498.5	500.5	501.1	497.6	493.6
25°	479.8	483.5	485.7	482.2	478.0
27.5°	457.0	462.8	469.4	466.7	462.1
30°	431.7	440.1	451.1	448.9	445.6
32.5°	407.7	416.0	431.2	430.4	428.6
35°	385.8	391.1	409.0	411.2	409.6
37.5°	365.1	370.0	386.7	391.8	390.5
40°	343.3	348.6	361.8	370.8	371.3
42.5°	321.7	326.7	337.5	350.6	350.6
45°	298.7	303.8	313.7	328.1	329.8
47.5°	276.3	281.5	291.2	305.6	308.4
50°	254.2	259.1	268.8	282.6	287.1
52.5°	231.3	236.6	246.0	258.8	265.2
55°	209.2	212.8	223.1	235.5	242.3
57.5°	186.3	189.6	201.3	211.9	218.9
60°	164.3	168.4	177.5	188.3	196.4
62.5°	143.1	147.5	155.2	164.7	174.0
65°	122.6	125.9	133.4	142.9	151.0
67.5°	102.7	105.6	113.1	119.7	128.3
70°	82.7	86.4	91.9	98.3	103.8
72.5°	66.6	68.1	72.8	77.4	83.1
75°	49.2	51.8	55.6	58.2	61.5
77.5°	35.3	36.8	39.0	41.2	44.3
80°	23.6	24.3	26.2	26.7	29.1
82.5°	14.3	14.8	15.2	15.4	16.3
85°	7.7	7.7	7.7	7.3	7.3
87.5°	4.4	4.4	3.7	3.1	2.2
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)