

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: P554425

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-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: P554425
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

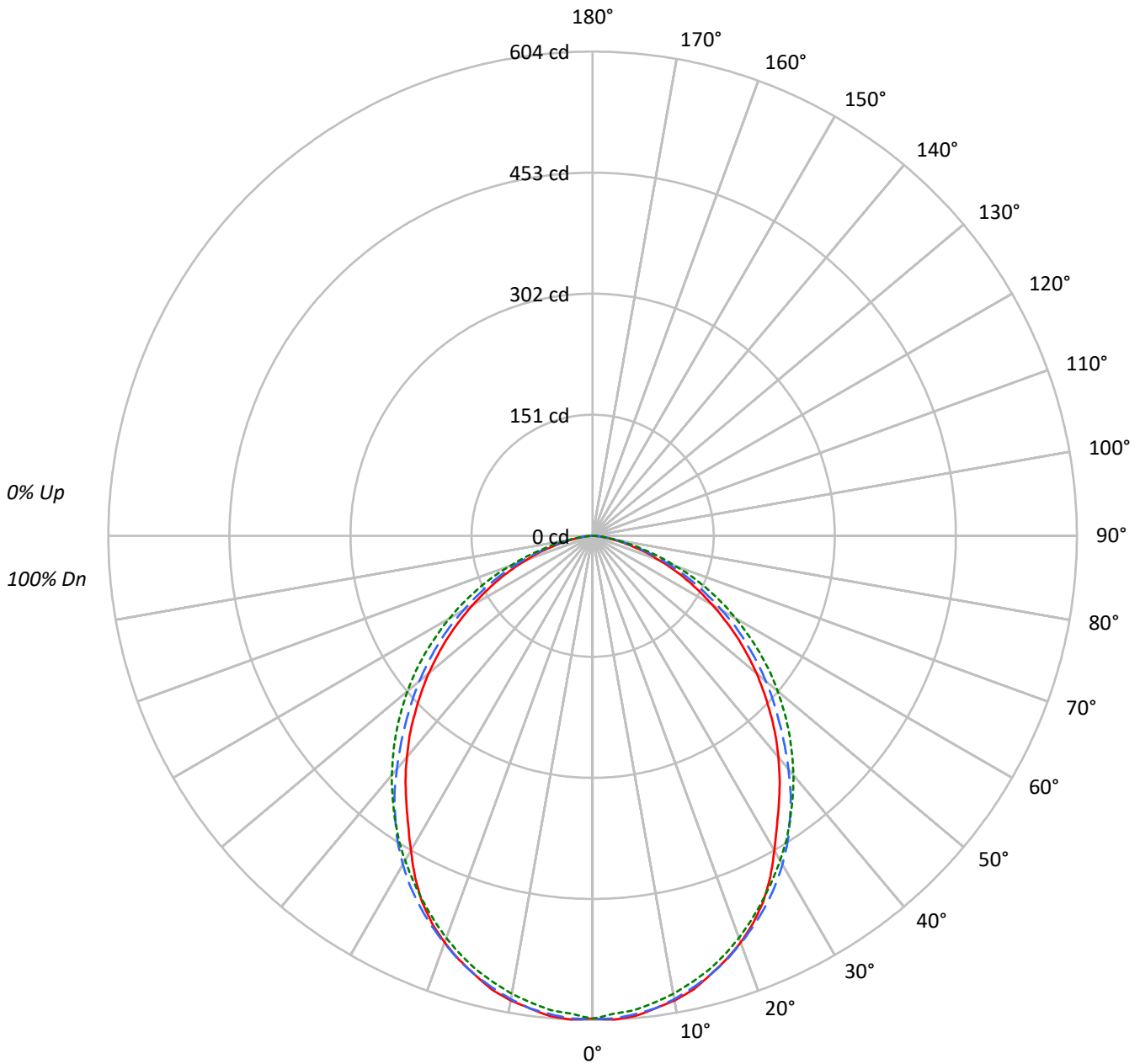
Lumens per Lamp: N/A
Luminaire Lumens: 1393.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	3242	3242	3242
5°	3251	3237	3210
10°	3217	3207	3171
15°	3159	3159	3123
20°	3092	3096	3057
25°	2991	3028	2980
30°	2816	2943	2907
35°	2661	2821	2825
40°	2532	2668	2738
45°	2387	2506	2635
50°	2234	2362	2523
55°	2061	2198	2387
60°	1856	2005	2220
65°	1639	1783	2018
70°	1366	1519	1715
75°	1073	1212	1343
80°	769	852	945
85°	500	500	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	4.1
10°-20°	159.3	11.4
20°-30°	232.9	16.7
30°-40°	264.3	19.0
40°-50°	255.2	18.3
50°-60°	210.5	15.1
60°-70°	140.2	10.1
70°-80°	62.7	4.5
80°-90°	11.2	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°	448.9	32.2
0°-40°	713.2	51.2
0°-60°	1178.9	84.6
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	602	602	599	596	594	57
15°	567	568	567	564	560	160
25°	504	508	510	506	502	231
35°	405	411	429	432	430	254
45°	314	319	329	344	346	242
55°	220	223	234	247	254	196
65°	129	132	140	150	158	128
75°	52	54	58	61	65	56
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.4	602.4	602.4	602.4	602.4
2.5°	604.1	604.3	602.9	599.2	596.9
5°	601.7	601.5	599.2	596.0	594.1
7.5°	595.0	595.5	594.8	590.2	587.6
10°	588.6	588.8	586.9	583.2	580.2
12.5°	580.2	580.0	577.4	575.6	570.7
15°	567.0	568.4	567.0	564.5	560.5
17.5°	554.3	554.3	555.2	550.8	547.8
20°	539.9	540.6	540.6	537.2	533.7
22.5°	523.3	525.4	526.1	522.4	518.2
25°	503.6	507.5	509.9	506.2	501.8
27.5°	479.8	485.8	492.7	490.0	485.1
30°	453.2	462.0	473.5	471.2	467.7
32.5°	427.9	436.7	452.7	451.8	449.9
35°	405.0	410.6	429.3	431.6	430.0
37.5°	383.3	388.4	405.9	411.3	409.9
40°	360.4	365.9	379.8	389.3	389.7
42.5°	337.7	343.0	354.3	368.0	368.0
45°	313.6	318.9	329.3	344.4	346.2
47.5°	290.0	295.5	305.7	320.8	323.8
50°	266.8	271.9	282.1	296.7	301.3
52.5°	242.8	248.3	258.3	271.7	278.4
55°	219.6	223.3	234.2	247.2	254.4
57.5°	195.6	199.0	211.3	222.4	229.8
60°	172.4	176.8	186.3	197.6	206.2
62.5°	150.2	154.8	162.9	172.9	182.6
65°	128.7	132.2	140.0	150.0	158.5
67.5°	107.9	110.9	118.7	125.7	134.7
70°	86.8	90.7	96.5	103.2	109.0
72.5°	69.9	71.5	76.4	81.2	87.3
75°	51.6	54.4	58.3	61.1	64.6
77.5°	37.0	38.7	41.0	43.3	46.5
80°	24.8	25.5	27.5	28.0	30.5
82.5°	15.0	15.5	16.0	16.2	17.1
85°	8.1	8.1	8.1	7.6	7.6
87.5°	4.6	4.6	3.9	3.2	2.3
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)