

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: P554422

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-87-EDD-90**

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: P554422
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

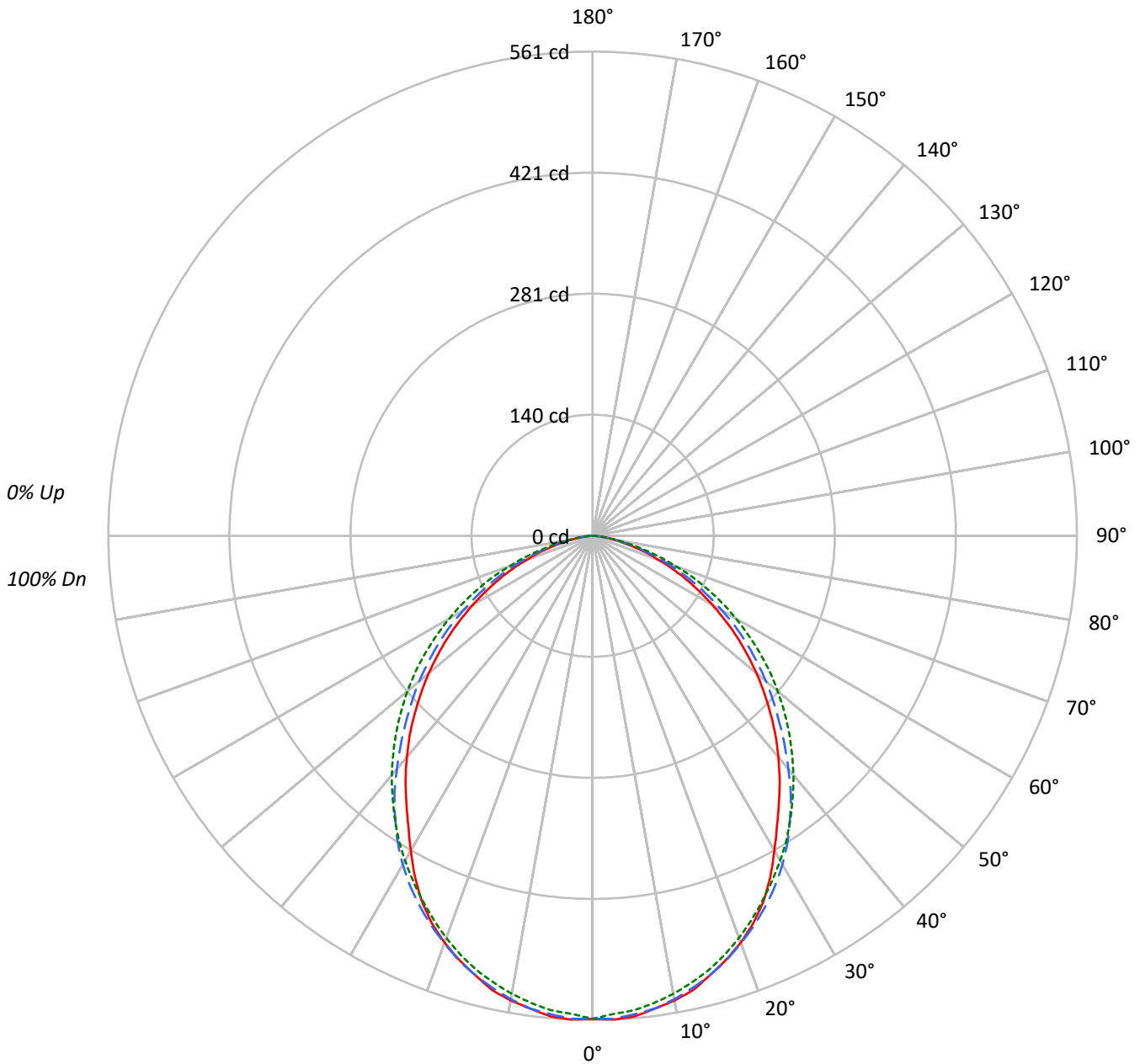
Lumens per Lamp: N/A
Luminaire Lumens: 1294.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

TEST NUMBER: P554422

CATALOG NUMBER: FUSL-12-2-LD4-1STD-35-UNV-80-87-EDD-90

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°	3012	3012	3012
5°	3020	3007	2982
10°	2988	2980	2946
15°	2935	2935	2901
20°	2873	2876	2840
25°	2778	2812	2768
30°	2616	2734	2700
35°	2472	2620	2625
40°	2351	2479	2543
45°	2217	2328	2448
50°	2076	2195	2344
55°	1914	2042	2217
60°	1724	1863	2062
65°	1522	1657	1876
70°	1268	1412	1594
75°	996	1127	1248
80°	713	793	880
85°	463	463	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.1
10°-20°	148.0	11.4
20°-30°	216.3	16.7
30°-40°	245.5	19.0
40°-50°	237.0	18.3
50°-60°	195.5	15.1
60°-70°	130.2	10.1
70°-80°	58.3	4.5
80°-90°	10.4	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°	417.0	32.2
0°-40°	662.6	51.2
0°-60°	1095.1	84.6
0°-90°	1294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	559	559	557	554	552	53
15°	527	528	527	524	521	148
25°	468	472	474	470	466	214
35°	376	381	399	401	400	236
45°	291	296	306	320	322	225
55°	204	208	218	230	236	182
65°	120	123	130	139	147	119
75°	48	50	54	57	60	52
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°	559.6	559.6	559.6	559.6	559.6
2.5°	561.1	561.3	560.1	556.6	554.5
5°	559.0	558.8	556.6	553.6	551.9
7.5°	552.7	553.2	552.5	548.2	545.9
10°	546.7	546.9	545.2	541.8	539.0
12.5°	539.0	538.8	536.4	534.7	530.2
15°	526.7	528.0	526.7	524.4	520.7
17.5°	514.9	514.9	515.8	511.7	508.9
20°	501.6	502.2	502.2	499.0	495.8
22.5°	486.1	488.0	488.7	485.2	481.4
25°	467.8	471.5	473.6	470.2	466.1
27.5°	445.7	451.3	457.7	455.1	450.6
30°	421.0	429.1	439.9	437.7	434.5
32.5°	397.5	405.7	420.5	419.7	417.9
35°	376.2	381.4	398.8	401.0	399.5
37.5°	356.0	360.8	377.1	382.0	380.7
40°	334.7	339.9	352.8	361.6	362.0
42.5°	313.7	318.6	329.2	341.8	341.8
45°	291.3	296.3	305.9	319.9	321.6
47.5°	269.4	274.5	284.0	298.0	300.8
50°	247.9	252.6	262.1	275.6	279.9
52.5°	225.5	230.7	239.9	252.4	258.6
55°	204.0	207.5	217.6	229.6	236.3
57.5°	181.7	184.9	196.3	206.6	213.5
60°	160.2	164.3	173.1	183.6	191.6
62.5°	139.5	143.8	151.4	160.6	169.6
65°	119.5	122.8	130.1	139.3	147.3
67.5°	100.2	103.0	110.3	116.7	125.1
70°	80.6	84.3	89.7	95.9	101.3
72.5°	64.9	66.4	70.9	75.5	81.1
75°	47.9	50.5	54.2	56.8	60.0
77.5°	34.4	35.9	38.1	40.2	43.2
80°	23.0	23.6	25.6	26.0	28.4
82.5°	14.0	14.4	14.8	15.0	15.9
85°	7.5	7.5	7.5	7.1	7.1
87.5°	4.3	4.3	3.7	3.0	2.1
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)