

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: P553852

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-96-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: P553852
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-LD4-1HI-30-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

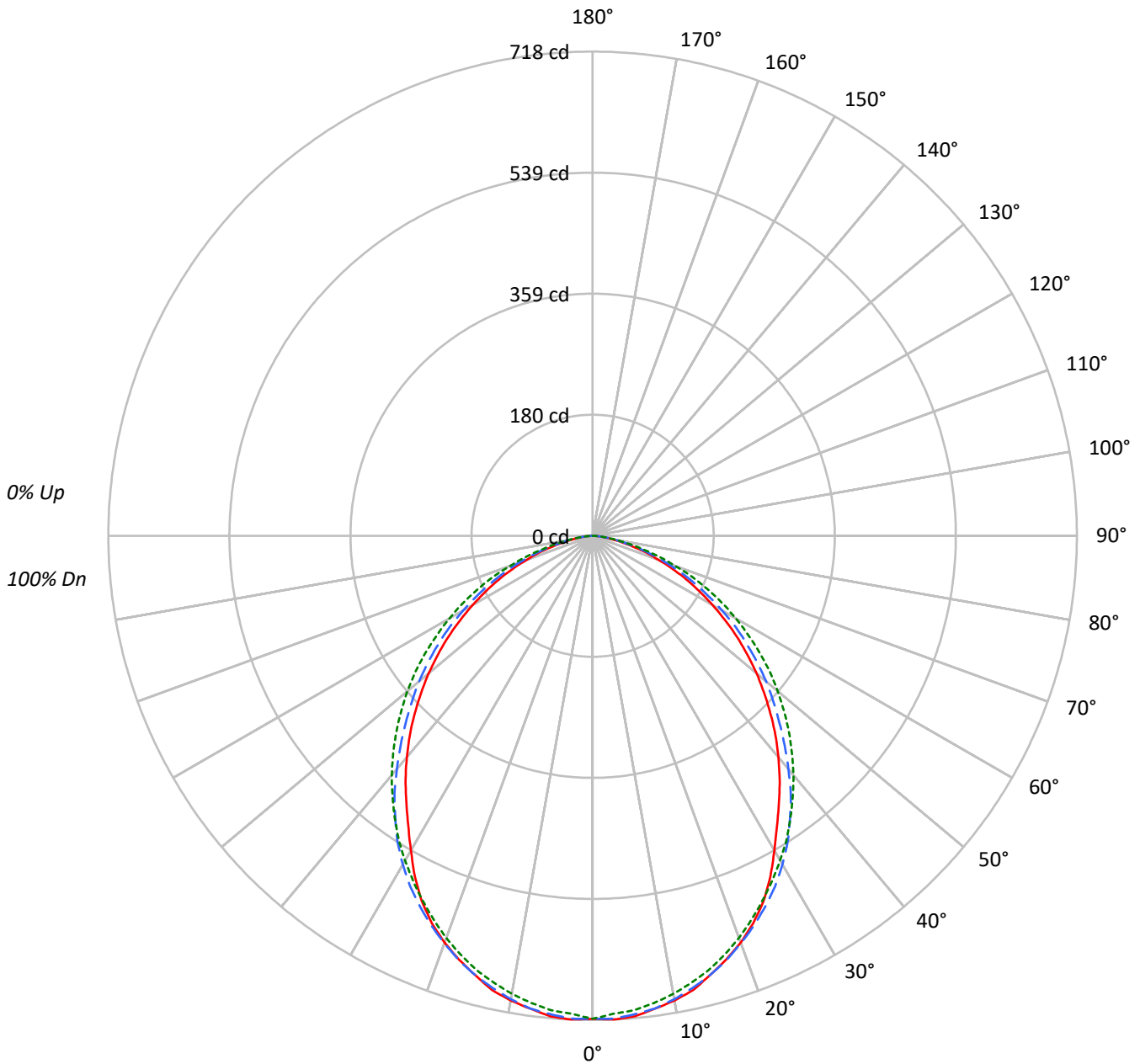
Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

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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°	3855	3855	3855
5°	3865	3848	3816
10°	3824	3813	3770
15°	3756	3756	3713
20°	3676	3681	3634
25°	3555	3599	3542
30°	3348	3498	3455
35°	3164	3353	3359
40°	3010	3172	3255
45°	2837	2980	3133
50°	2656	2808	2999
55°	2450	2612	2837
60°	2207	2384	2638
65°	1948	2120	2401
70°	1624	1805	2039
75°	1277	1441	1597
80°	911	1013	1125
85°	593	593	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	4.1
10°-20°	189.4	11.4
20°-30°	276.8	16.7
30°-40°	314.2	19.0
40°-50°	303.3	18.3
50°-60°	250.2	15.1
60°-70°	166.6	10.1
70°-80°	74.6	4.5
80°-90°	13.3	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°	533.7	32.2
0°-40°	847.9	51.2
0°-60°	1401.5	84.6
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	715	715	712	708	706	68
15°	674	676	674	671	666	190
25°	599	603	606	602	596	274
35°	482	488	510	513	511	302
45°	373	379	392	409	412	288
55°	261	266	278	294	302	233
65°	153	157	166	178	188	152
75°	61	65	69	73	77	67
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.2	716.2	716.2	716.2	716.2
2.5°	718.1	718.4	716.7	712.3	709.6
5°	715.4	715.1	712.3	708.5	706.3
7.5°	707.4	707.9	707.1	701.6	698.6
10°	699.7	699.9	697.7	693.3	689.8
12.5°	689.8	689.5	686.5	684.3	678.5
15°	674.1	675.7	674.1	671.1	666.4
17.5°	658.9	658.9	660.0	654.8	651.2
20°	641.9	642.7	642.7	638.6	634.5
22.5°	622.1	624.6	625.4	621.0	616.0
25°	598.7	603.4	606.1	601.7	596.5
27.5°	570.4	577.5	585.8	582.5	576.7
30°	538.7	549.2	562.9	560.2	556.0
32.5°	508.7	519.2	538.2	537.1	534.9
35°	481.5	488.1	510.4	513.1	511.2
37.5°	455.6	461.7	482.6	488.9	487.3
40°	428.4	435.0	451.5	462.8	463.3
42.5°	401.4	407.8	421.2	437.5	437.5
45°	372.8	379.1	391.5	409.4	411.6
47.5°	344.7	351.3	363.5	381.3	384.9
50°	317.2	323.3	335.4	352.7	358.2
52.5°	288.6	295.2	307.1	323.0	331.0
55°	261.1	265.5	278.4	293.8	302.4
57.5°	232.5	236.6	251.2	264.4	273.2
60°	205.0	210.2	221.5	235.0	245.1
62.5°	178.6	184.1	193.7	205.5	217.1
65°	153.0	157.1	166.5	178.3	188.5
67.5°	128.2	131.8	141.1	149.4	160.1
70°	103.2	107.9	114.7	122.7	129.6
72.5°	83.1	85.0	90.8	96.6	103.7
75°	61.4	64.7	69.3	72.6	76.8
77.5°	44.0	45.9	48.7	51.5	55.3
80°	29.4	30.3	32.7	33.3	36.3
82.5°	17.9	18.4	19.0	19.3	20.4
85°	9.6	9.6	9.6	9.1	9.1
87.5°	5.5	5.5	4.7	3.9	2.8
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)