

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: P554026

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-93-94-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: P554026
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-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

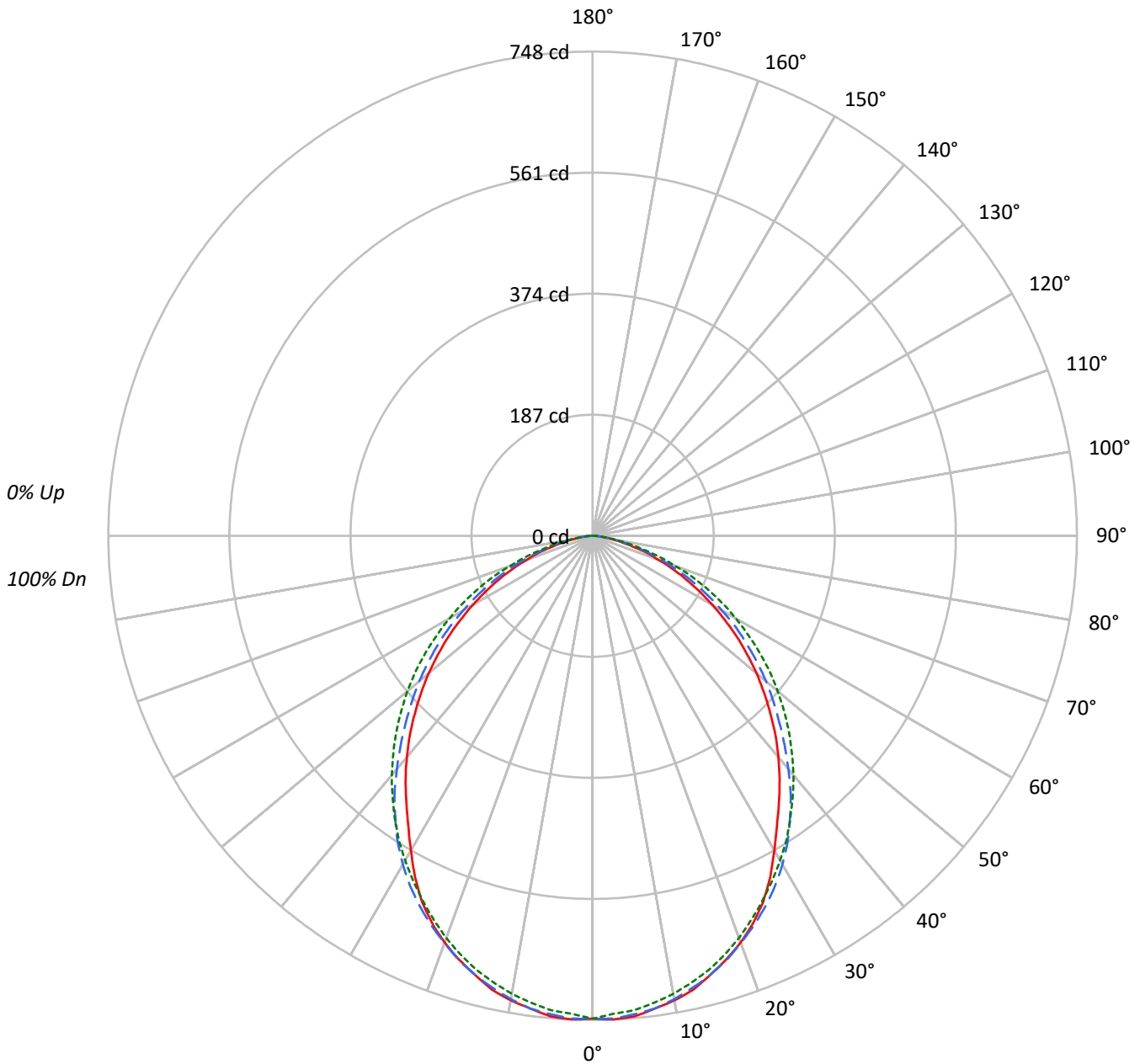
Lumens per Lamp: N/A
Luminaire Lumens: 1725.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4015	4015	4015
5°	4026	4009	3975
10°	3983	3972	3927
15°	3913	3913	3867
20°	3829	3834	3785
25°	3703	3749	3689
30°	3488	3644	3599
35°	3295	3493	3499
40°	3135	3304	3391
45°	2955	3104	3264
50°	2766	2925	3125
55°	2552	2721	2956
60°	2298	2483	2749
65°	2029	2208	2500
70°	1692	1880	2124
75°	1329	1501	1664
80°	951	1057	1172
85°	618	618	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	4.1
10°-20°	197.3	11.4
20°-30°	288.4	16.7
30°-40°	327.3	19.0
40°-50°	316.0	18.3
50°-60°	260.7	15.1
60°-70°	173.6	10.1
70°-80°	77.7	4.5
80°-90°	13.9	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°	555.9	32.2
0°-40°	883.2	51.2
0°-60°	1459.9	84.6
0°-90°	1725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	745	745	742	738	736	71
15°	702	704	702	699	694	198
25°	624	628	631	627	621	286
35°	502	508	532	534	532	314
45°	388	395	408	426	429	300
55°	272	277	290	306	315	243
65°	159	164	173	186	196	158
75°	64	67	72	76	80	70
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.0	746.0	746.0	746.0	746.0
2.5°	748.0	748.3	746.6	742.0	739.1
5°	745.2	744.9	742.0	738.0	735.7
7.5°	736.8	737.4	736.6	730.8	727.7
10°	728.8	729.1	726.8	722.2	718.5
12.5°	718.5	718.2	715.1	712.8	706.8
15°	702.2	703.9	702.2	699.0	694.1
17.5°	686.4	686.4	687.6	682.1	678.4
20°	668.6	669.5	669.5	665.2	660.9
22.5°	648.0	650.6	651.4	646.9	641.7
25°	623.6	628.5	631.4	626.8	621.3
27.5°	594.1	601.6	610.2	606.7	600.7
30°	561.2	572.1	586.4	583.5	579.2
32.5°	529.9	540.8	560.6	559.4	557.1
35°	501.5	508.4	531.6	534.5	532.5
37.5°	474.6	480.9	502.7	509.3	507.6
40°	446.2	453.1	470.3	482.1	482.6
42.5°	418.1	424.7	438.8	455.7	455.7
45°	388.3	394.9	407.8	426.5	428.8
47.5°	359.1	366.0	378.6	397.2	401.0
50°	330.4	336.8	349.4	367.4	373.2
52.5°	300.6	307.5	319.8	336.5	344.8
55°	272.0	276.6	290.0	306.1	315.0
57.5°	242.2	246.5	261.7	275.4	284.6
60°	213.5	219.0	230.7	244.8	255.4
62.5°	186.0	191.7	201.8	214.1	226.1
65°	159.3	163.6	173.4	185.7	196.3
67.5°	133.6	137.3	147.0	155.6	166.8
70°	107.5	112.3	119.5	127.8	135.0
72.5°	86.6	88.6	94.6	100.6	108.0
75°	63.9	67.4	72.2	75.7	80.0
77.5°	45.9	47.9	50.7	53.6	57.6
80°	30.7	31.5	34.1	34.7	37.8
82.5°	18.6	19.2	19.8	20.1	21.2
85°	10.0	10.0	10.0	9.5	9.5
87.5°	5.7	5.7	4.9	4.0	2.9
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)