

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: P553969

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-80-84-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: P553969
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

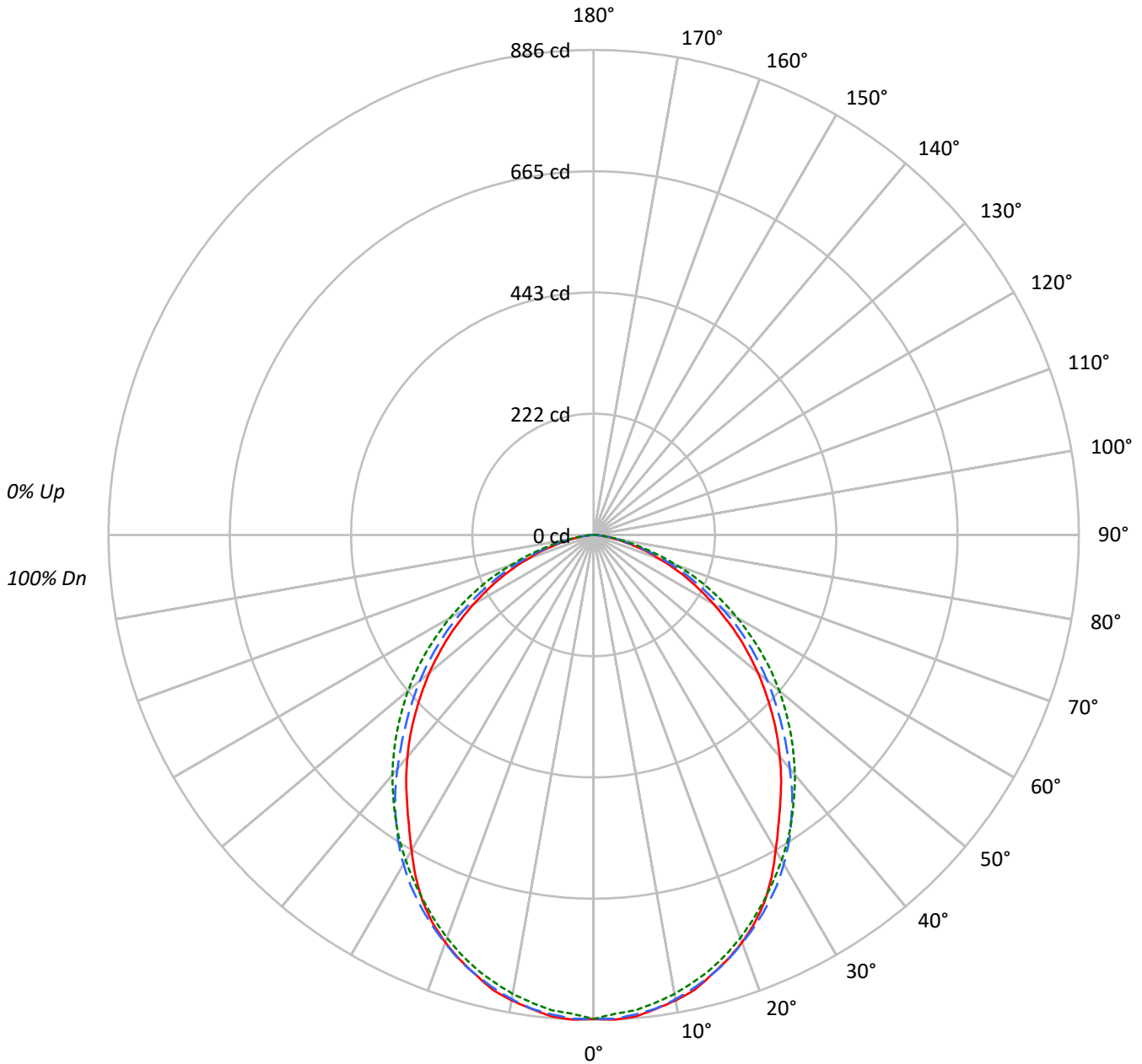
Lumens per Lamp: N/A
Luminaire Lumens: 2044.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P553969

CATALOG NUMBER: FUSL-12-2-LD4-1HI-40-UNV-80-84-EDD

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°	4758	4758	4758
5°	4770	4750	4710
10°	4720	4706	4653
15°	4636	4636	4583
20°	4538	4544	4485
25°	4388	4442	4372
30°	4132	4318	4265
35°	3905	4139	4146
40°	3715	3915	4018
45°	3503	3678	3867
50°	3279	3466	3702
55°	3024	3225	3502
60°	2723	2943	3257
65°	2404	2617	2962
70°	2003	2228	2518
75°	1574	1780	1969
80°	1125	1252	1389
85°	735	735	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	4.1
10°-20°	233.8	11.4
20°-30°	341.7	16.7
30°-40°	387.8	19.0
40°-50°	374.4	18.3
50°-60°	308.9	15.1
60°-70°	205.7	10.1
70°-80°	92.0	4.5
80°-90°	16.5	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°	658.7	32.2
0°-40°	1046.6	51.2
0°-60°	1729.8	84.6
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	883	883	879	874	872	84
15°	832	834	832	828	822	235
25°	739	745	748	743	736	338
35°	594	602	630	633	631	372
45°	460	468	483	505	508	355
55°	322	328	344	363	373	288
65°	189	194	206	220	233	187
75°	76	80	86	90	95	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	884.0
2.5°	886.4	886.7	884.7	879.2	875.8
5°	883.0	882.6	879.2	874.5	871.8
7.5°	873.1	873.8	872.8	866.0	862.2
10°	863.6	863.9	861.2	855.8	851.4
12.5°	851.4	851.0	847.3	844.6	837.5
15°	832.0	834.1	832.0	828.3	822.5
17.5°	813.3	813.3	814.7	808.2	803.8
20°	792.3	793.3	793.3	788.2	783.1
22.5°	767.8	770.9	771.9	766.5	760.4
25°	739.0	744.7	748.1	742.7	736.3
27.5°	704.0	712.8	723.0	718.9	711.8
30°	664.9	677.8	694.8	691.4	686.3
32.5°	627.9	640.8	664.3	662.9	660.2
35°	594.3	602.4	630.0	633.4	631.0
37.5°	562.4	569.8	595.7	603.5	601.4
40°	528.8	536.9	557.3	571.2	571.9
42.5°	495.5	503.3	519.9	540.0	540.0
45°	460.2	468.0	483.2	505.3	508.0
47.5°	425.5	433.7	448.6	470.7	475.1
50°	391.6	399.0	414.0	435.4	442.2
52.5°	356.2	364.4	379.0	398.7	408.5
55°	322.3	327.7	343.7	362.7	373.2
57.5°	287.0	292.1	310.1	326.4	337.2
60°	253.0	259.5	273.4	290.0	302.6
62.5°	220.4	227.2	239.1	253.7	267.9
65°	188.8	193.9	205.5	220.1	232.6
67.5°	158.3	162.7	174.2	184.4	197.6
70°	127.3	133.1	141.6	151.5	160.0
72.5°	102.6	104.9	112.1	119.2	128.0
75°	75.7	79.8	85.6	89.7	94.7
77.5°	54.3	56.7	60.1	63.5	68.3
80°	36.3	37.4	40.4	41.1	44.8
82.5°	22.1	22.8	23.4	23.8	25.1
85°	11.9	11.9	11.9	11.2	11.2
87.5°	6.8	6.8	5.8	4.8	3.4
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)