

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: P554935

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-87-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: P554935
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-LD4-2LO-35-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

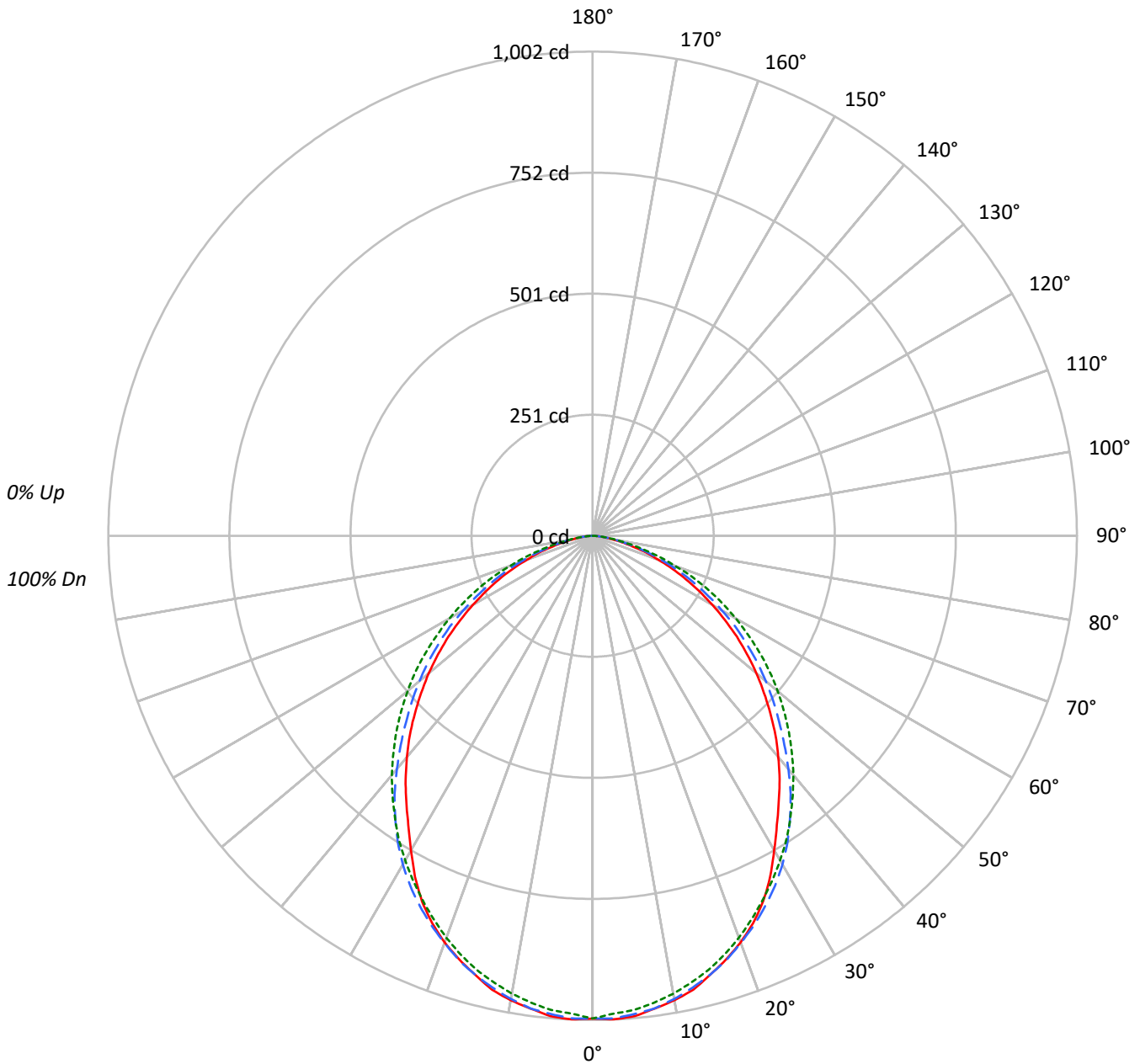
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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									
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°	5377	5377	5377
5°	5391	5368	5323
10°	5334	5319	5258
15°	5239	5239	5179
20°	5128	5135	5069
25°	4959	5021	4941
30°	4670	4880	4820
35°	4413	4677	4685
40°	4199	4425	4541
45°	3958	4156	4370
50°	3705	3917	4184
55°	3417	3644	3958
60°	3077	3326	3681
65°	2718	2957	3348
70°	2264	2518	2845
75°	1780	2011	2227
80°	1274	1416	1571
85°	827	827	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	4.1
10°-20°	264.2	11.4
20°-30°	386.1	16.7
30°-40°	438.3	19.0
40°-50°	423.1	18.3
50°-60°	349.1	15.1
60°-70°	232.4	10.1
70°-80°	104.0	4.5
80°-90°	18.6	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°	744.4	32.2
0°-40°	1182.8	51.2
0°-60°	1954.9	84.6
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	998	998	994	988	985	94
15°	940	943	940	936	930	265
25°	835	842	846	839	832	382
35°	672	681	712	716	713	421
45°	520	529	546	571	574	401
55°	364	370	388	410	422	325
65°	213	219	232	249	263	212
75°	86	90	97	101	107	94
85°	13	13	13	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.0	999.0	999.0	999.0	999.0
2.5°	1001.7	1002.1	999.8	993.6	989.8
5°	997.9	997.5	993.6	988.3	985.2
7.5°	986.7	987.5	986.4	978.7	974.5
10°	976.0	976.4	973.3	967.2	962.2
12.5°	962.2	961.8	957.6	954.5	946.4
15°	940.3	942.6	940.3	936.1	929.5
17.5°	919.2	919.2	920.7	913.4	908.4
20°	895.4	896.5	896.5	890.8	885.0
22.5°	867.8	871.2	872.4	866.2	859.3
25°	835.1	841.7	845.5	839.4	832.1
27.5°	795.6	805.6	817.1	812.5	804.4
30°	751.5	766.1	785.2	781.4	775.6
32.5°	709.6	724.2	750.7	749.2	746.1
35°	671.6	680.9	711.9	715.8	713.1
37.5°	635.6	644.0	673.2	682.0	679.7
40°	597.6	606.8	629.8	645.5	646.3
42.5°	560.0	568.8	587.6	610.2	610.2
45°	520.0	528.9	546.1	571.1	574.2
47.5°	480.9	490.1	507.0	531.9	536.9
50°	442.5	451.0	467.8	492.0	499.7
52.5°	402.6	411.8	428.3	450.6	461.7
55°	364.2	370.4	388.4	409.9	421.8
57.5°	324.3	330.1	350.4	368.8	381.1
60°	285.9	293.2	309.0	327.8	342.0
62.5°	249.1	256.8	270.2	286.7	302.8
65°	213.4	219.1	232.2	248.7	262.9
67.5°	178.8	183.8	196.9	208.4	223.4
70°	143.9	150.4	160.0	171.2	180.8
72.5°	115.9	118.6	126.7	134.7	144.7
75°	85.6	90.2	96.7	101.3	107.1
77.5°	61.4	64.1	67.9	71.8	77.1
80°	41.1	42.2	45.7	46.4	50.7
82.5°	24.9	25.7	26.5	26.9	28.4
85°	13.4	13.4	13.4	12.7	12.7
87.5°	7.7	7.7	6.5	5.4	3.8
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)