

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: P554027

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-93-94-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: P554027
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
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

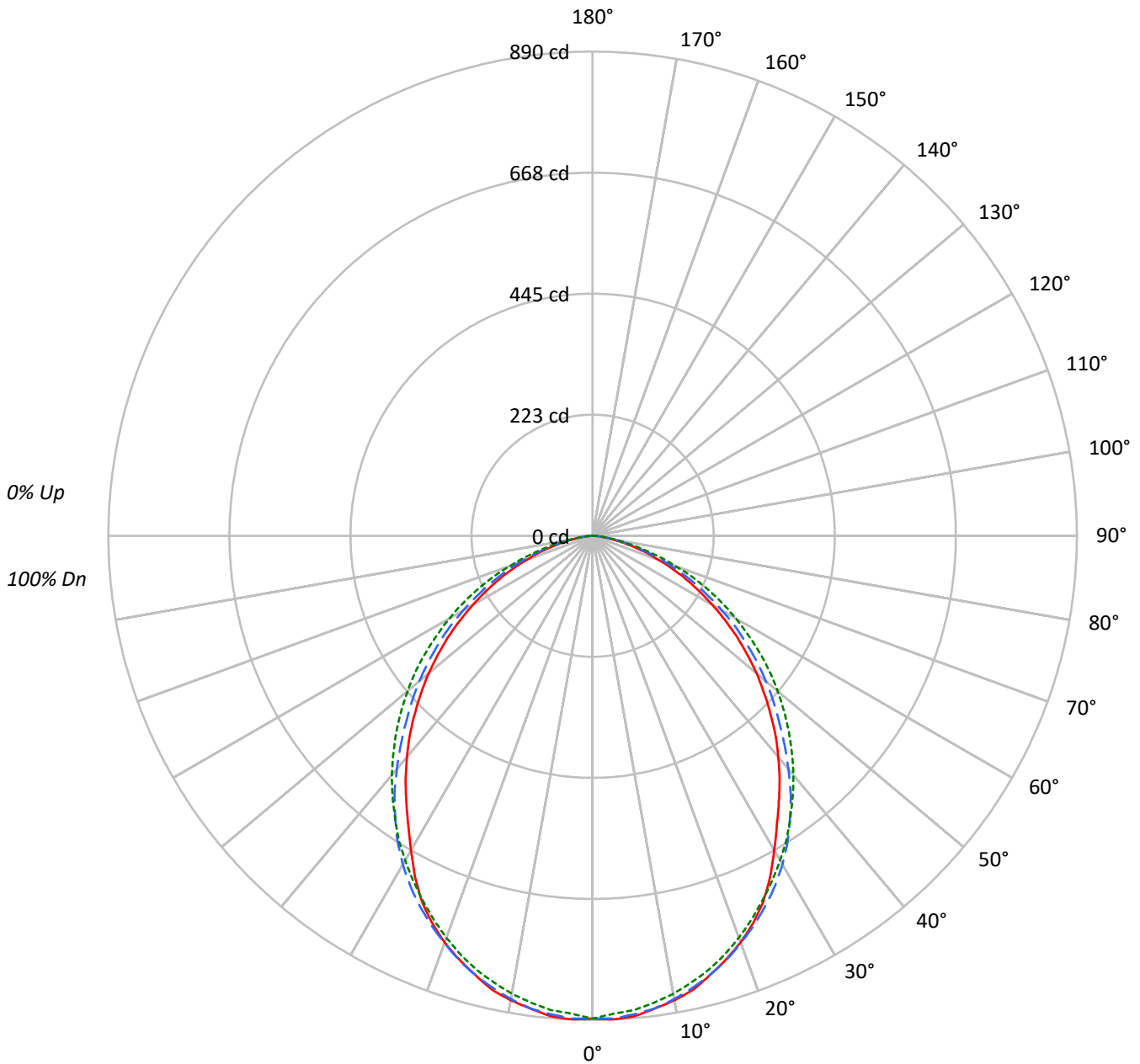
Lumens per Lamp: N/A
Luminaire Lumens: 2052.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4776	4776	4776
5°	4789	4769	4728
10°	4738	4725	4671
15°	4654	4654	4601
20°	4556	4561	4503
25°	4406	4460	4389
30°	4148	4335	4282
35°	3920	4155	4162
40°	3729	3931	4033
45°	3516	3692	3882
50°	3291	3480	3717
55°	3035	3237	3516
60°	2734	2954	3270
65°	2415	2627	2974
70°	2011	2238	2527
75°	1580	1786	1978
80°	1131	1258	1395
85°	735	735	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	4.1
10°-20°	234.7	11.4
20°-30°	343.0	16.7
30°-40°	389.4	19.0
40°-50°	375.9	18.3
50°-60°	310.1	15.1
60°-70°	206.5	10.1
70°-80°	92.4	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°	661.3	32.2
0°-40°	1050.7	51.2
0°-60°	1736.6	84.6
0°-90°	2052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	886	886	883	878	875	84
15°	835	837	835	832	826	235
25°	742	748	751	746	739	340
35°	597	605	632	636	633	374
45°	462	470	485	507	510	356
55°	324	329	345	364	375	289
65°	190	195	206	221	234	188
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°	887.4	887.4	887.4	887.4	887.4
2.5°	889.8	890.2	888.1	882.7	879.3
5°	886.4	886.1	882.7	877.9	875.2
7.5°	876.5	877.2	876.2	869.4	865.6
10°	867.0	867.3	864.6	859.1	854.7
12.5°	854.7	854.4	850.6	847.9	840.7
15°	835.3	837.3	835.3	831.5	825.7
17.5°	816.5	816.5	817.9	811.4	807.0
20°	795.4	796.4	796.4	791.3	786.2
22.5°	770.8	773.9	774.9	769.5	763.3
25°	741.9	747.7	751.1	745.6	739.1
27.5°	706.7	715.6	725.8	721.7	714.6
30°	667.5	680.5	697.5	694.1	689.0
32.5°	630.4	643.3	666.9	665.5	662.8
35°	596.6	604.8	632.4	635.8	633.4
37.5°	564.6	572.1	598.0	605.8	603.8
40°	530.8	539.0	559.5	573.4	574.1
42.5°	497.4	505.3	522.0	542.1	542.1
45°	462.0	469.8	485.1	507.3	510.0
47.5°	427.2	435.4	450.4	472.5	477.0
50°	393.1	400.6	415.6	437.1	443.9
52.5°	357.6	365.8	380.5	400.3	410.1
55°	323.5	329.0	345.0	364.1	374.7
57.5°	288.1	293.2	311.3	327.6	338.5
60°	254.0	260.5	274.4	291.2	303.8
62.5°	221.3	228.1	240.0	254.7	269.0
65°	189.6	194.7	206.3	220.9	233.5
67.5°	158.9	163.3	174.9	185.1	198.4
70°	127.8	133.6	142.2	152.1	160.6
72.5°	103.0	105.3	112.5	119.7	128.5
75°	76.0	80.1	85.9	90.0	95.1
77.5°	54.5	56.9	60.3	63.8	68.5
80°	36.5	37.5	40.6	41.3	45.0
82.5°	22.2	22.8	23.5	23.9	25.2
85°	11.9	11.9	11.9	11.3	11.3
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)