

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: P554284

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-96-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: P554284
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-LD4-1LO-40-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

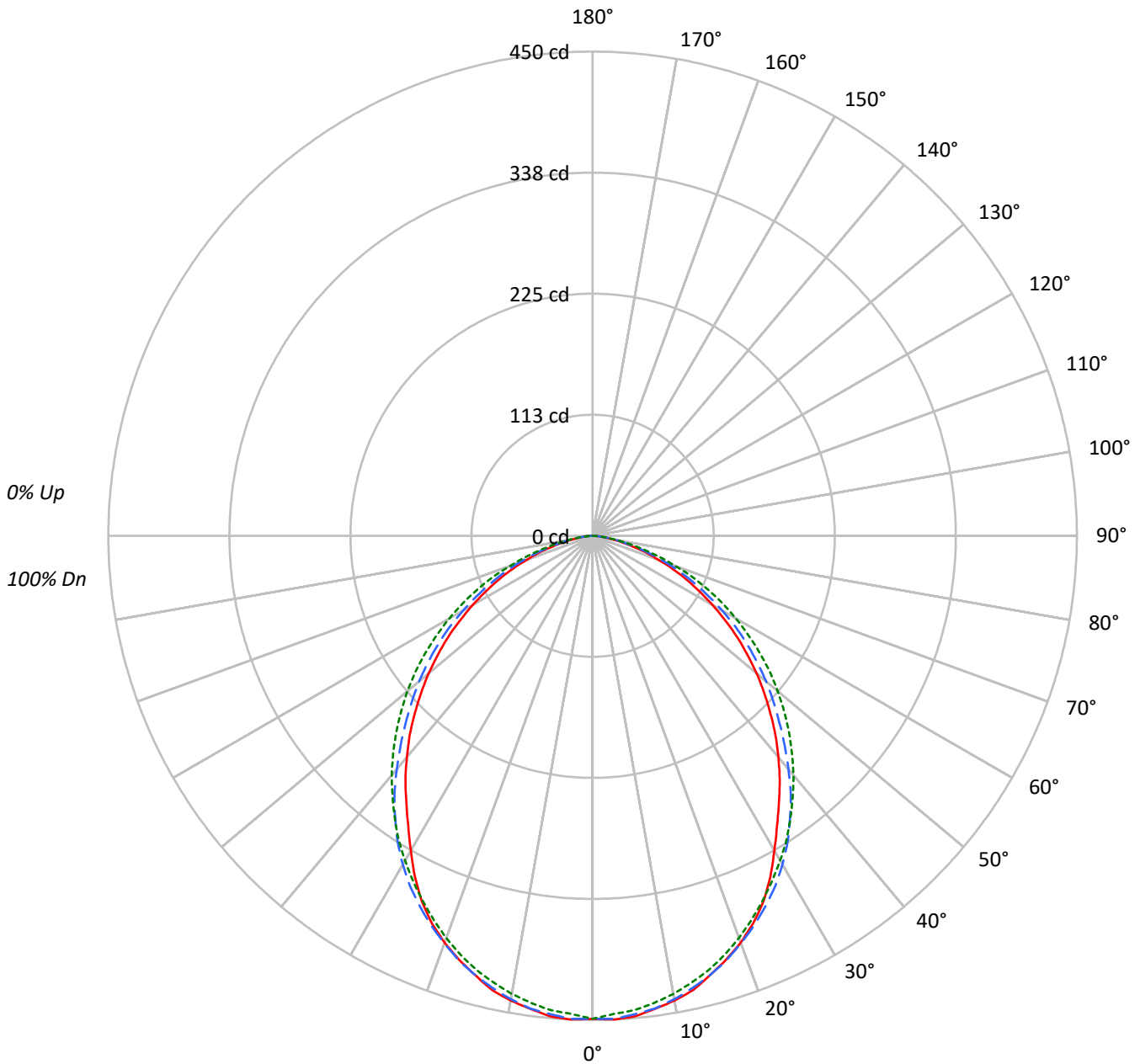
Lumens per Lamp: N/A
Luminaire Lumens: 1038.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554284

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-93-96-EDD-90

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°	2416	2416	2416
5°	2422	2412	2392
10°	2397	2390	2363
15°	2354	2354	2327
20°	2304	2308	2278
25°	2229	2256	2220
30°	2099	2192	2166
35°	1983	2102	2105
40°	1886	1988	2040
45°	1779	1868	1964
50°	1665	1760	1880
55°	1536	1637	1778
60°	1383	1494	1654
65°	1221	1328	1504
70°	1018	1131	1278
75°	801	905	1000
80°	573	635	707
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	4.1
10°-20°	118.7	11.4
20°-30°	173.5	16.7
30°-40°	197.0	19.0
40°-50°	190.1	18.3
50°-60°	156.8	15.1
60°-70°	104.4	10.1
70°-80°	46.7	4.5
80°-90°	8.4	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°	334.5	32.2
0°-40°	531.5	51.2
0°-60°	878.4	84.6
0°-90°	1038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	448	446	444	443	42
15°	422	424	422	421	418	119
25°	375	378	380	377	374	172
35°	302	306	320	322	320	189
45°	234	238	245	257	258	180
55°	164	166	174	184	190	146
65°	96	98	104	112	118	95
75°	38	40	44	46	48	42
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.9	448.9	448.9	448.9	448.9
2.5°	450.1	450.3	449.3	446.5	444.8
5°	448.4	448.2	446.5	444.1	442.7
7.5°	443.4	443.7	443.2	439.8	437.9
10°	438.6	438.7	437.4	434.6	432.4
12.5°	432.4	432.2	430.3	428.9	425.3
15°	422.5	423.6	422.5	420.6	417.7
17.5°	413.0	413.0	413.7	410.5	408.2
20°	402.3	402.9	402.9	400.3	397.7
22.5°	389.9	391.5	392.0	389.2	386.1
25°	375.3	378.2	379.9	377.2	373.9
27.5°	357.5	362.0	367.2	365.1	361.5
30°	337.7	344.2	352.8	351.1	348.5
32.5°	318.9	325.4	337.3	336.6	335.3
35°	301.8	305.9	319.9	321.6	320.4
37.5°	285.6	289.4	302.5	306.5	305.4
40°	268.5	272.7	283.0	290.1	290.4
42.5°	251.6	255.6	264.0	274.2	274.2
45°	233.7	237.6	245.4	256.6	258.0
47.5°	216.1	220.2	227.8	239.0	241.3
50°	198.8	202.6	210.2	221.1	224.5
52.5°	180.9	185.0	192.5	202.5	207.5
55°	163.7	166.4	174.5	184.2	189.5
57.5°	145.7	148.3	157.5	165.7	171.3
60°	128.5	131.8	138.8	147.3	153.7
62.5°	111.9	115.4	121.4	128.8	136.1
65°	95.9	98.5	104.3	111.8	118.1
67.5°	80.4	82.6	88.5	93.6	100.4
70°	64.7	67.6	71.9	76.9	81.2
72.5°	52.1	53.3	56.9	60.5	65.0
75°	38.5	40.5	43.5	45.5	48.1
77.5°	27.6	28.8	30.5	32.2	34.7
80°	18.5	19.0	20.5	20.9	22.8
82.5°	11.2	11.6	11.9	12.1	12.8
85°	6.0	6.0	6.0	5.7	5.7
87.5°	3.4	3.4	2.9	2.4	1.7
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)