

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: P554160

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-84-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: P554160
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-35-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

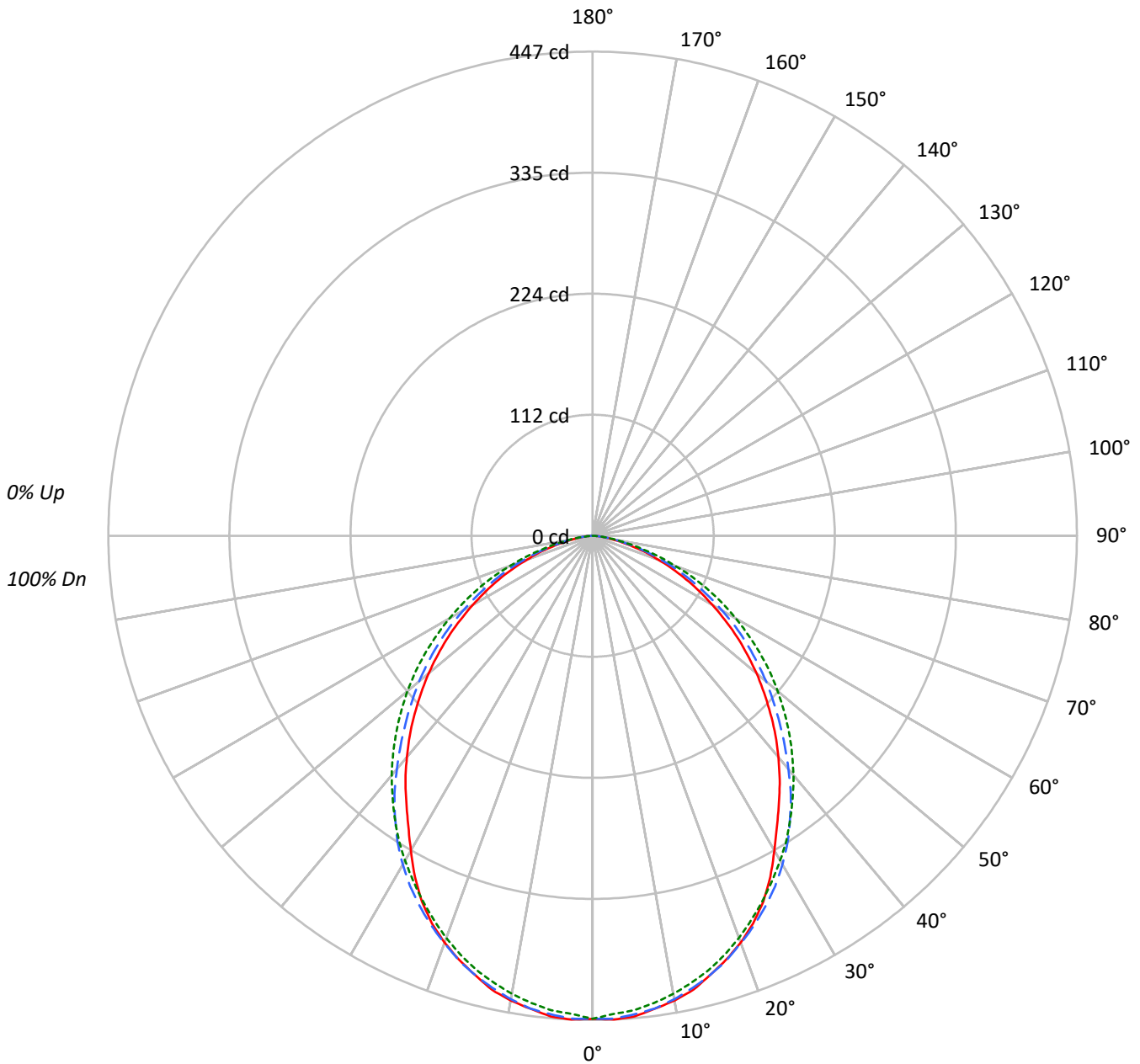
Lumens per Lamp: N/A
Luminaire Lumens: 1031.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554160

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-84-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°	2400	2400	2400
5°	2406	2396	2375
10°	2381	2374	2347
15°	2338	2338	2312
20°	2289	2292	2262
25°	2213	2241	2205
30°	2084	2178	2151
35°	1970	2088	2091
40°	1874	1975	2027
45°	1767	1856	1951
50°	1654	1748	1867
55°	1526	1627	1767
60°	1373	1484	1643
65°	1212	1319	1494
70°	1010	1124	1270
75°	794	898	994
80°	567	632	700
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	4.1
10°-20°	117.9	11.4
20°-30°	172.3	16.7
30°-40°	195.6	19.0
40°-50°	188.9	18.3
50°-60°	155.8	15.1
60°-70°	103.7	10.1
70°-80°	46.4	4.5
80°-90°	8.3	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°	332.3	32.2
0°-40°	527.9	51.2
0°-60°	872.5	84.6
0°-90°	1031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	445	445	444	441	440	42
15°	420	421	420	418	415	118
25°	373	376	377	375	371	171
35°	300	304	318	320	318	188
45°	232	236	244	255	256	179
55°	163	165	173	183	188	145
65°	95	98	104	111	117	94
75°	38	40	43	45	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°	445.9	445.9	445.9	445.9	445.9
2.5°	447.1	447.3	446.2	443.5	441.8
5°	445.4	445.2	443.5	441.1	439.7
7.5°	440.4	440.7	440.2	436.8	434.9
10°	435.6	435.8	434.4	431.7	429.4
12.5°	429.4	429.3	427.4	426.0	422.4
15°	419.7	420.7	419.7	417.8	414.9
17.5°	410.3	410.3	410.9	407.7	405.5
20°	399.6	400.1	400.1	397.6	395.0
22.5°	387.3	388.8	389.4	386.6	383.5
25°	372.7	375.6	377.4	374.6	371.4
27.5°	355.1	359.5	364.7	362.6	359.0
30°	335.4	341.9	350.5	348.8	346.2
32.5°	316.7	323.2	335.1	334.4	333.0
35°	299.8	303.9	317.8	319.5	318.3
37.5°	283.7	287.4	300.5	304.4	303.4
40°	266.7	270.8	281.1	288.1	288.5
42.5°	249.9	253.9	262.3	272.4	272.4
45°	232.1	236.0	243.8	254.9	256.3
47.5°	214.6	218.7	226.3	237.4	239.6
50°	197.5	201.3	208.8	219.6	223.0
52.5°	179.7	183.8	191.2	201.1	206.1
55°	162.6	165.3	173.4	182.9	188.3
57.5°	144.7	147.3	156.4	164.6	170.1
60°	127.6	130.9	137.9	146.3	152.6
62.5°	111.2	114.6	120.6	128.0	135.2
65°	95.2	97.8	103.6	111.0	117.3
67.5°	79.8	82.1	87.9	93.0	99.7
70°	64.2	67.1	71.4	76.4	80.7
72.5°	51.7	52.9	56.5	60.1	64.6
75°	38.2	40.3	43.2	45.2	47.8
77.5°	27.4	28.6	30.3	32.0	34.4
80°	18.3	18.8	20.4	20.7	22.6
82.5°	11.1	11.5	11.8	12.0	12.7
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)