

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: P554294

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-87-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: P554294
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-50-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

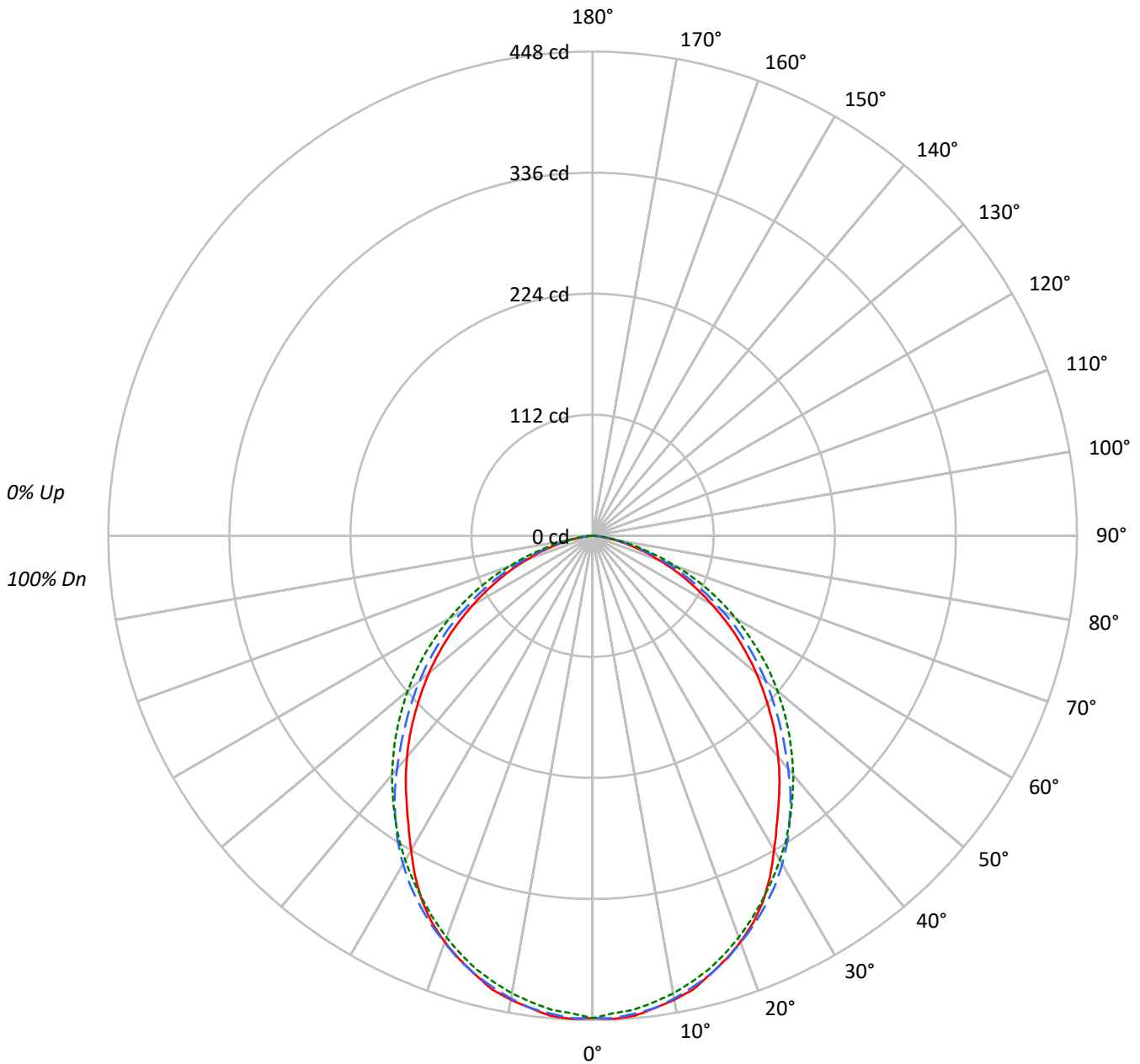
Lumens per Lamp: N/A
Luminaire Lumens: 1032.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554294

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-80-87-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°	2402	2402	2402
5°	2408	2398	2378
10°	2383	2376	2349
15°	2341	2341	2314
20°	2291	2294	2265
25°	2216	2243	2207
30°	2086	2180	2153
35°	1972	2090	2093
40°	1876	1977	2028
45°	1768	1857	1952
50°	1655	1750	1869
55°	1527	1628	1768
60°	1375	1485	1645
65°	1214	1321	1496
70°	1012	1125	1271
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°	118.0	11.4
20°-30°	172.5	16.7
30°-40°	195.8	19.0
40°-50°	189.0	18.3
50°-60°	155.9	15.1
60°-70°	103.8	10.1
70°-80°	46.5	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°	332.6	32.2
0°-40°	528.4	51.2
0°-60°	873.4	84.6
0°-90°	1032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	446	446	444	442	440	42
15°	420	421	420	418	415	118
25°	373	376	378	375	372	171
35°	300	304	318	320	319	188
45°	232	236	244	255	256	179
55°	163	166	174	183	188	145
65°	95	98	104	111	118	95
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°	446.3	446.3	446.3	446.3	446.3
2.5°	447.5	447.7	446.7	443.9	442.2
5°	445.8	445.6	443.9	441.5	440.1
7.5°	440.8	441.2	440.7	437.2	435.3
10°	436.0	436.2	434.8	432.1	429.9
12.5°	429.9	429.7	427.8	426.4	422.8
15°	420.1	421.1	420.1	418.2	415.3
17.5°	410.6	410.6	411.3	408.1	405.8
20°	400.0	400.5	400.5	398.0	395.4
22.5°	387.7	389.2	389.7	387.0	383.9
25°	373.1	376.0	377.7	375.0	371.7
27.5°	355.4	359.9	365.0	363.0	359.4
30°	335.7	342.2	350.8	349.1	346.5
32.5°	317.0	323.5	335.4	334.7	333.3
35°	300.1	304.2	318.1	319.8	318.6
37.5°	283.9	287.7	300.7	304.7	303.7
40°	267.0	271.1	281.4	288.4	288.7
42.5°	250.2	254.1	262.5	272.6	272.6
45°	232.3	236.3	244.0	255.1	256.5
47.5°	214.8	219.0	226.5	237.6	239.9
50°	197.7	201.5	209.0	219.8	223.2
52.5°	179.9	184.0	191.4	201.3	206.3
55°	162.7	165.5	173.5	183.1	188.4
57.5°	144.9	147.5	156.5	164.8	170.3
60°	127.7	131.0	138.0	146.4	152.8
62.5°	111.3	114.7	120.7	128.1	135.3
65°	95.3	97.9	103.7	111.1	117.5
67.5°	79.9	82.1	88.0	93.1	99.8
70°	64.3	67.2	71.5	76.5	80.8
72.5°	51.8	53.0	56.6	60.2	64.6
75°	38.2	40.3	43.2	45.3	47.8
77.5°	27.4	28.6	30.3	32.1	34.5
80°	18.3	18.9	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)