

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: P554306

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-85-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: P554306
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

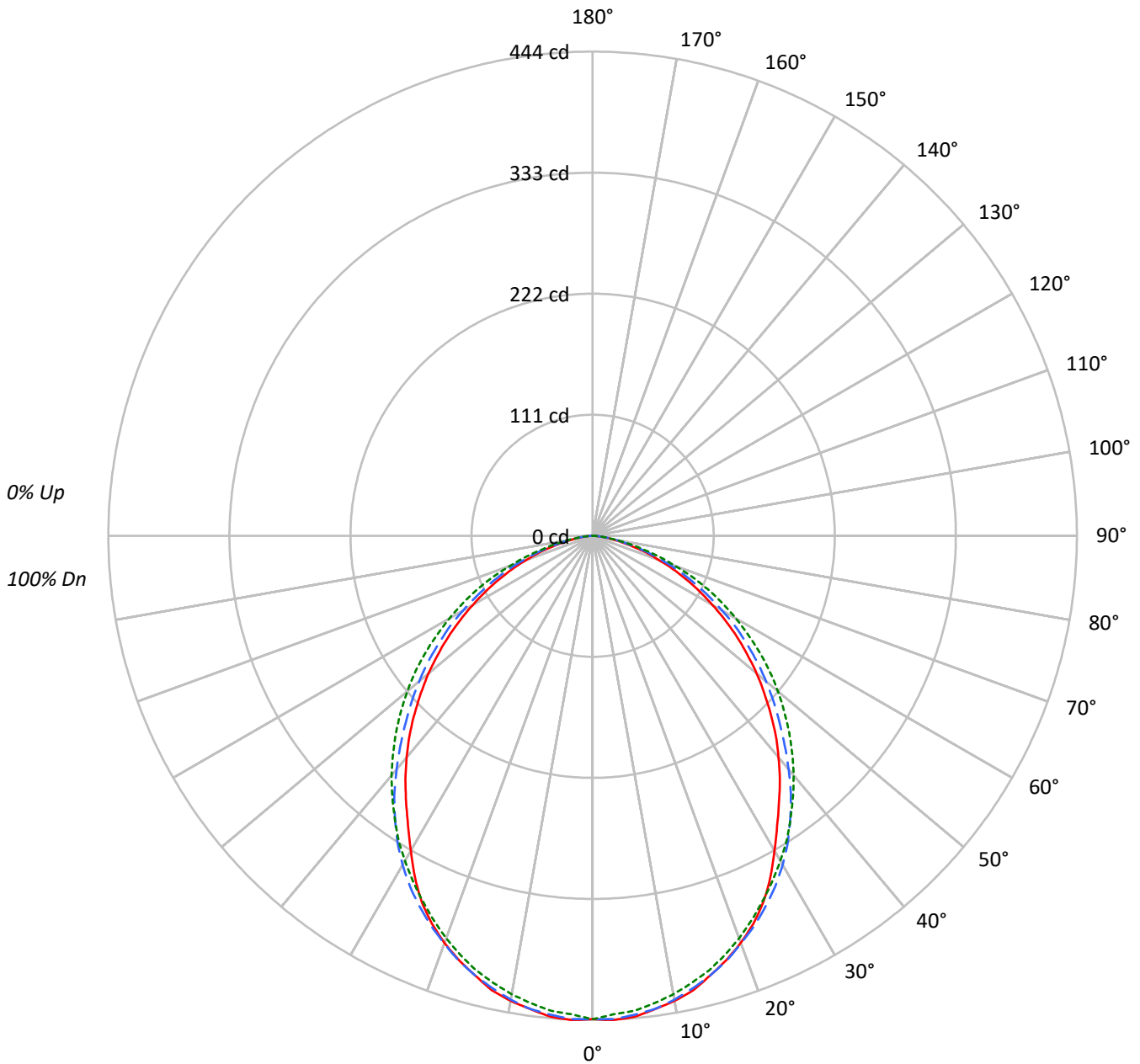
Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2386	2386	2386
5°	2392	2382	2362
10°	2367	2360	2333
15°	2325	2325	2298
20°	2275	2278	2249
25°	2201	2228	2192
30°	2072	2165	2139
35°	1958	2076	2079
40°	1863	1964	2015
45°	1757	1844	1939
50°	1644	1738	1856
55°	1516	1617	1757
60°	1366	1476	1633
65°	1206	1312	1486
70°	1006	1117	1262
75°	790	892	988
80°	564	629	697
85°	371	371	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	4.1
10°-20°	117.3	11.4
20°-30°	171.3	16.7
30°-40°	194.5	19.0
40°-50°	187.8	18.3
50°-60°	154.9	15.1
60°-70°	103.1	10.1
70°-80°	46.1	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°	330.3	32.2
0°-40°	524.8	51.2
0°-60°	867.5	84.6
0°-90°	1025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	443	443	441	438	437	42
15°	417	418	417	415	412	118
25°	371	374	375	372	369	170
35°	298	302	316	318	316	187
45°	231	235	242	253	255	178
55°	162	164	172	182	187	144
65°	95	97	103	110	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°	443.3	443.3	443.3	443.3	443.3
2.5°	444.5	444.6	443.6	440.9	439.2
5°	442.8	442.6	440.9	438.5	437.2
7.5°	437.8	438.2	437.7	434.3	432.4
10°	433.1	433.2	431.9	429.2	426.9
12.5°	426.9	426.8	424.9	423.5	420.0
15°	417.2	418.3	417.2	415.4	412.5
17.5°	407.9	407.9	408.5	405.3	403.1
20°	397.3	397.8	397.8	395.3	392.7
22.5°	385.0	386.6	387.1	384.4	381.3
25°	370.6	373.5	375.2	372.4	369.2
27.5°	353.0	357.5	362.6	360.5	356.9
30°	333.4	339.9	348.4	346.7	344.2
32.5°	314.9	321.4	333.1	332.4	331.1
35°	298.0	302.1	315.9	317.6	316.4
37.5°	282.0	285.8	298.7	302.6	301.6
40°	265.2	269.2	279.5	286.4	286.8
42.5°	248.5	252.4	260.7	270.8	270.8
45°	230.8	234.7	242.3	253.4	254.8
47.5°	213.4	217.5	225.0	236.0	238.2
50°	196.4	200.1	207.6	218.3	221.7
52.5°	178.6	182.7	190.1	199.9	204.9
55°	161.6	164.3	172.3	181.9	187.2
57.5°	143.9	146.5	155.5	163.7	169.1
60°	126.9	130.1	137.1	145.4	151.7
62.5°	110.5	113.9	119.9	127.2	134.4
65°	94.7	97.2	103.0	110.4	116.7
67.5°	79.4	81.6	87.4	92.5	99.1
70°	63.9	66.8	71.0	76.0	80.2
72.5°	51.4	52.6	56.2	59.8	64.2
75°	38.0	40.0	42.9	45.0	47.5
77.5°	27.2	28.4	30.1	31.8	34.2
80°	18.2	18.7	20.3	20.6	22.5
82.5°	11.1	11.4	11.8	11.9	12.6
85°	6.0	6.0	6.0	5.6	5.6
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)