

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: P554320

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-84-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: P554320
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

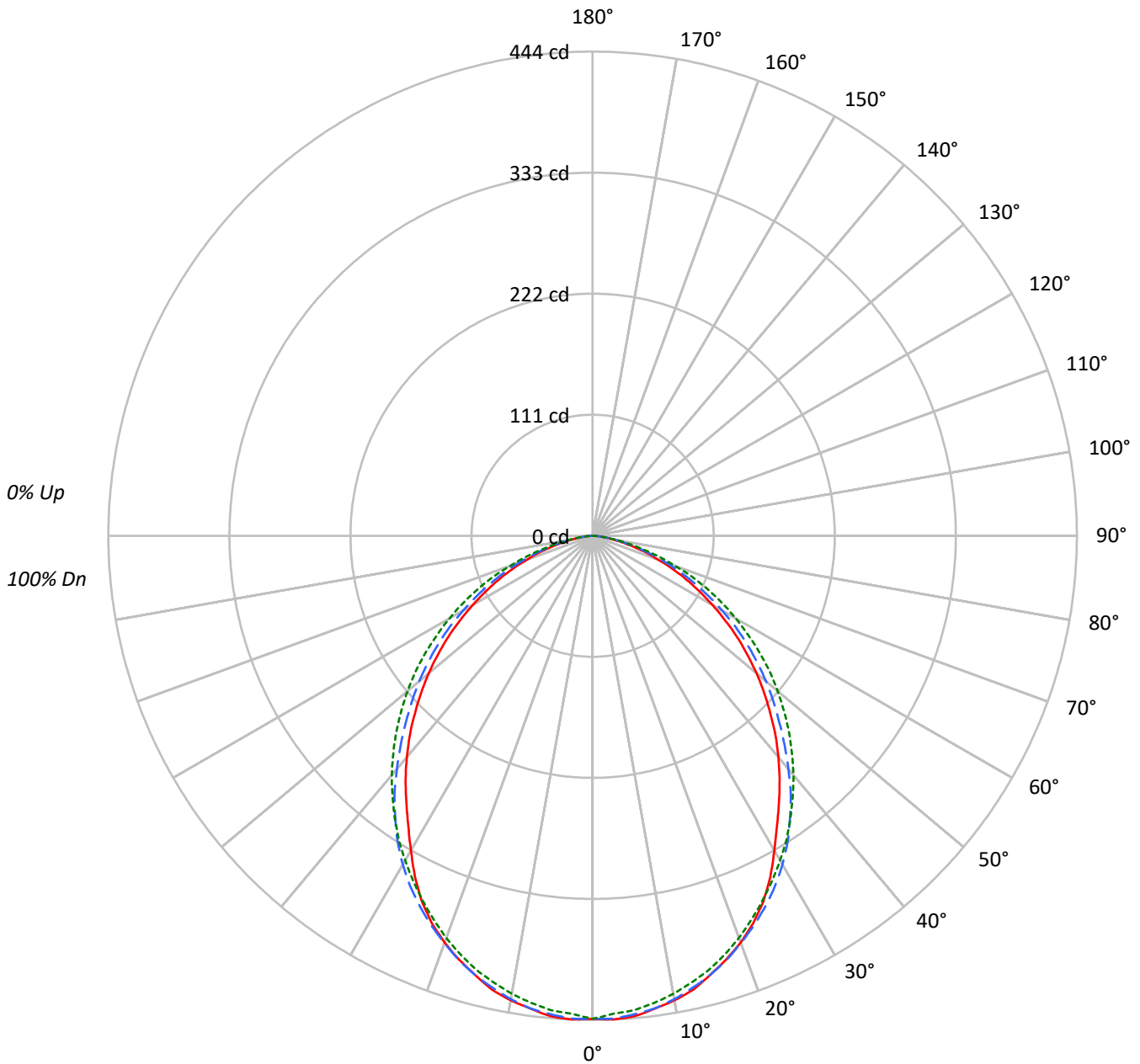
Lumens per Lamp: N/A
Luminaire Lumens: 1024.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2384	2384	2384
5°	2390	2380	2359
10°	2364	2358	2331
15°	2322	2322	2296
20°	2273	2276	2247
25°	2198	2226	2190
30°	2070	2163	2137
35°	1956	2074	2077
40°	1861	1962	2013
45°	1754	1843	1937
50°	1643	1737	1855
55°	1515	1616	1755
60°	1364	1475	1632
65°	1205	1310	1484
70°	1004	1116	1260
75°	788	892	988
80°	564	626	697
85°	371	371	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	4.1
10°-20°	117.1	11.4
20°-30°	171.2	16.7
30°-40°	194.3	19.0
40°-50°	187.6	18.3
50°-60°	154.7	15.1
60°-70°	103.0	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°	330.0	32.2
0°-40°	524.3	51.2
0°-60°	866.6	84.6
0°-90°	1024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	442	442	440	438	437	42
15°	417	418	417	415	412	118
25°	370	373	375	372	369	170
35°	298	302	316	317	316	187
45°	230	234	242	253	254	178
55°	162	164	172	182	187	144
65°	95	97	103	110	116	94
75°	38	40	43	45	48	41
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°	442.9	442.9	442.9	442.9	442.9
2.5°	444.0	444.2	443.2	440.5	438.8
5°	442.3	442.2	440.5	438.1	436.7
7.5°	437.4	437.7	437.2	433.8	432.0
10°	432.6	432.8	431.5	428.7	426.5
12.5°	426.5	426.4	424.5	423.1	419.5
15°	416.8	417.8	416.8	415.0	412.1
17.5°	407.5	407.5	408.1	404.9	402.7
20°	396.9	397.4	397.4	394.9	392.3
22.5°	384.7	386.2	386.7	384.0	380.9
25°	370.2	373.1	374.8	372.1	368.8
27.5°	352.7	357.1	362.2	360.2	356.6
30°	333.1	339.6	348.1	346.4	343.8
32.5°	314.6	321.0	332.8	332.1	330.7
35°	297.7	301.8	315.6	317.3	316.1
37.5°	281.7	285.5	298.4	302.3	301.3
40°	264.9	269.0	279.2	286.2	286.5
42.5°	248.2	252.1	260.5	270.5	270.5
45°	230.5	234.4	242.1	253.2	254.5
47.5°	213.2	217.3	224.7	235.8	238.0
50°	196.2	199.9	207.4	218.1	221.5
52.5°	178.5	182.6	189.9	199.7	204.7
55°	161.5	164.2	172.2	181.7	187.0
57.5°	143.8	146.3	155.3	163.5	168.9
60°	126.7	130.0	137.0	145.3	151.6
62.5°	110.4	113.8	119.8	127.1	134.2
65°	94.6	97.1	102.9	110.2	116.5
67.5°	79.3	81.5	87.3	92.4	99.0
70°	63.8	66.7	70.9	75.9	80.1
72.5°	51.4	52.6	56.1	59.7	64.1
75°	37.9	40.0	42.9	44.9	47.5
77.5°	27.2	28.4	30.1	31.8	34.2
80°	18.2	18.7	20.2	20.6	22.5
82.5°	11.1	11.4	11.7	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)