

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: P554456

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-82-88-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: P554456
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-LD4-1STD-35-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

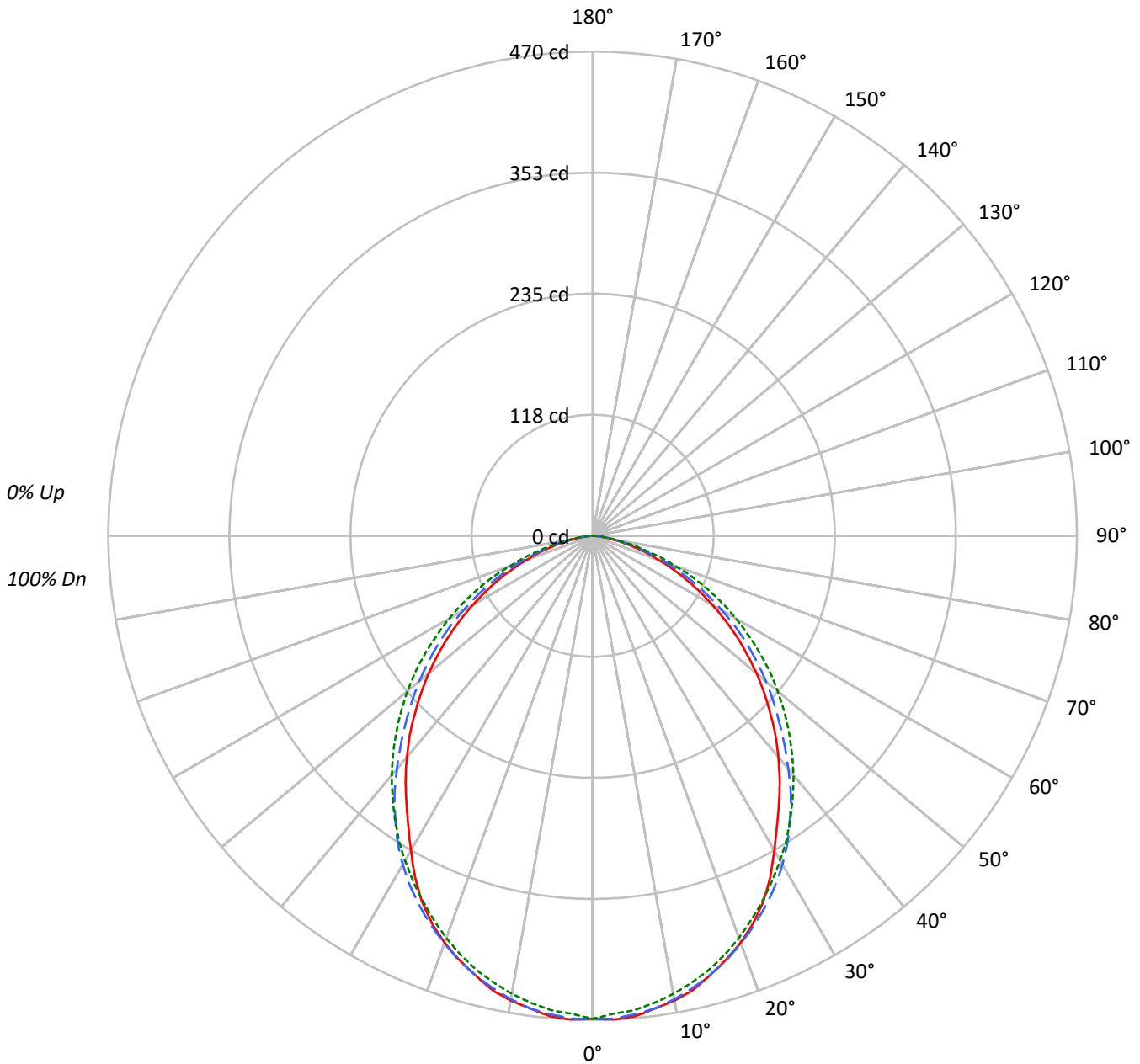
Lumens per Lamp: N/A
Luminaire Lumens: 1084.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	2523	2523	2523
5°	2530	2519	2498
10°	2503	2496	2467
15°	2458	2458	2430
20°	2407	2410	2379
25°	2327	2356	2319
30°	2191	2290	2262
35°	2071	2195	2198
40°	1970	2076	2131
45°	1857	1951	2050
50°	1739	1838	1963
55°	1604	1711	1857
60°	1445	1561	1728
65°	1275	1388	1571
70°	1062	1182	1334
75°	836	944	1044
80°	598	663	738
85°	389	389	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	4.1
10°-20°	124.0	11.4
20°-30°	181.2	16.7
30°-40°	205.7	19.0
40°-50°	198.6	18.3
50°-60°	163.8	15.1
60°-70°	109.1	10.1
70°-80°	48.8	4.5
80°-90°	8.7	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°	349.3	32.2
0°-40°	555.0	51.2
0°-60°	917.4	84.6
0°-90°	1084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	468	468	466	464	462	44
15°	441	442	441	439	436	124
25°	392	395	397	394	390	179
35°	315	320	334	336	335	197
45°	244	248	256	268	269	188
55°	171	174	182	192	198	153
65°	100	103	109	117	123	99
75°	40	42	45	48	50	44
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°	468.8	468.8	468.8	468.8	468.8
2.5°	470.1	470.2	469.2	466.3	464.5
5°	468.3	468.1	466.3	463.8	462.3
7.5°	463.0	463.4	462.9	459.3	457.3
10°	458.0	458.2	456.7	453.9	451.5
12.5°	451.5	451.3	449.4	447.9	444.1
15°	441.2	442.3	441.2	439.3	436.2
17.5°	431.3	431.3	432.1	428.6	426.3
20°	420.2	420.7	420.7	418.0	415.3
22.5°	407.2	408.8	409.4	406.5	403.2
25°	391.9	395.0	396.8	393.9	390.5
27.5°	373.3	378.0	383.4	381.3	377.5
30°	352.6	359.5	368.5	366.7	364.0
32.5°	333.0	339.8	352.3	351.6	350.1
35°	315.2	319.5	334.1	335.9	334.6
37.5°	298.2	302.2	315.9	320.0	319.0
40°	280.4	284.7	295.5	302.9	303.3
42.5°	262.8	266.9	275.7	286.4	286.4
45°	244.0	248.2	256.3	268.0	269.4
47.5°	225.7	230.0	237.9	249.6	252.0
50°	207.7	211.6	219.5	230.9	234.5
52.5°	188.9	193.2	201.0	211.4	216.7
55°	170.9	173.8	182.3	192.3	197.9
57.5°	152.2	154.9	164.4	173.1	178.8
60°	134.2	137.6	145.0	153.8	160.5
62.5°	116.9	120.5	126.8	134.5	142.1
65°	100.1	102.8	109.0	116.7	123.4
67.5°	83.9	86.3	92.4	97.8	104.8
70°	67.5	70.6	75.1	80.3	84.8
72.5°	54.4	55.7	59.4	63.2	67.9
75°	40.2	42.3	45.4	47.5	50.2
77.5°	28.8	30.1	31.9	33.7	36.2
80°	19.3	19.8	21.4	21.8	23.8
82.5°	11.7	12.1	12.4	12.6	13.3
85°	6.3	6.3	6.3	5.9	5.9
87.5°	3.6	3.6	3.1	2.5	1.8
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)