

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: P554201

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-88-EDD**

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: P554201
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

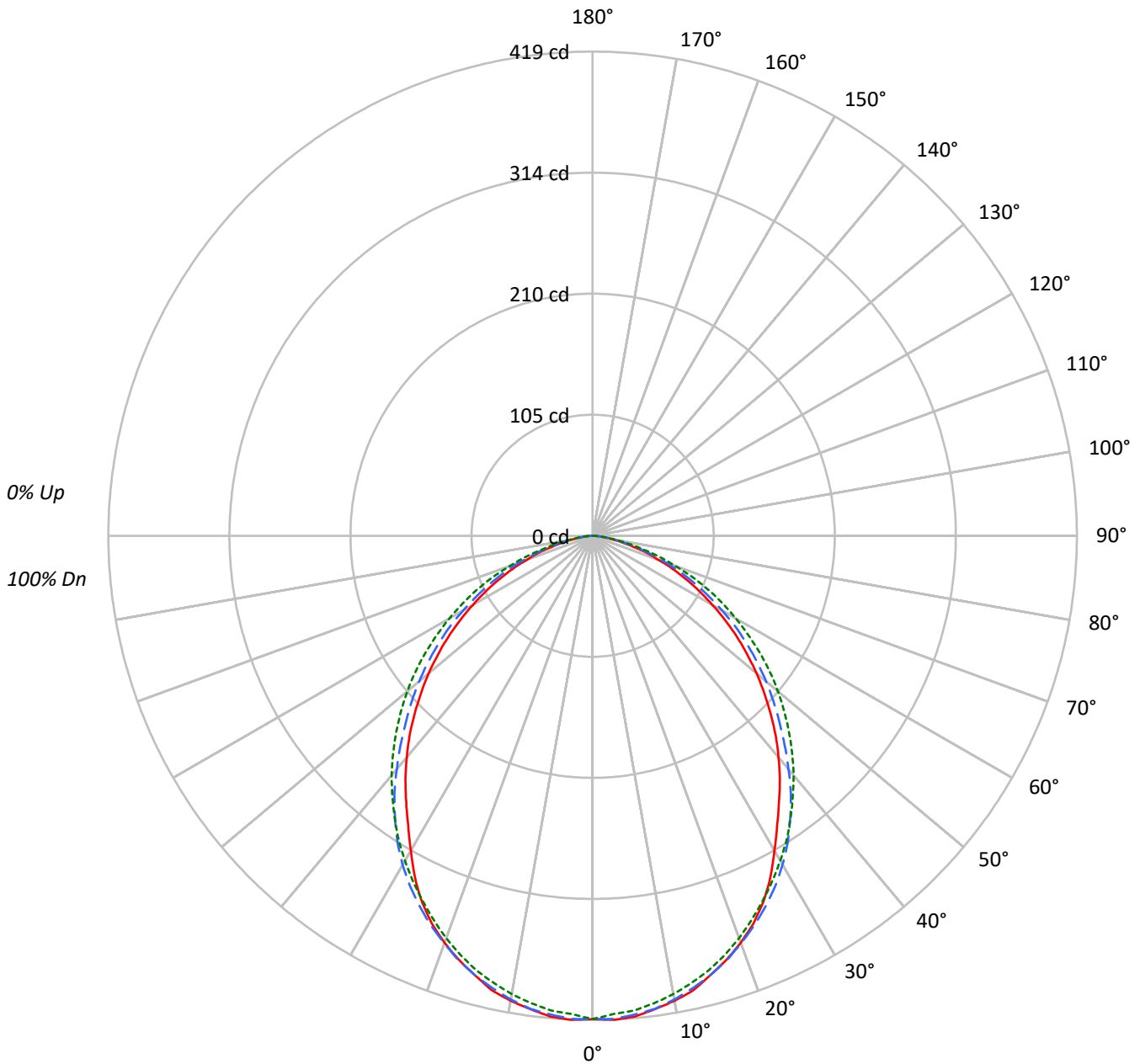
Lumens per Lamp: N/A
Luminaire Lumens: 967.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2251	2251	2251
5°	2257	2247	2228
10°	2233	2226	2201
15°	2193	2193	2168
20°	2147	2149	2122
25°	2076	2102	2068
30°	1955	2043	2018
35°	1848	1958	1961
40°	1758	1852	1901
45°	1657	1740	1829
50°	1551	1639	1752
55°	1431	1526	1657
60°	1288	1392	1540
65°	1137	1238	1402
70°	947	1054	1191
75°	744	842	932
80°	533	592	657
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.1
10°-20°	110.6	11.4
20°-30°	161.6	16.7
30°-40°	183.5	19.0
40°-50°	177.1	18.3
50°-60°	146.1	15.1
60°-70°	97.3	10.1
70°-80°	43.5	4.5
80°-90°	7.8	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°	311.6	32.2
0°-40°	495.1	51.2
0°-60°	818.4	84.6
0°-90°	967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	416	414	412	40
15°	394	395	394	392	389	111
25°	350	352	354	351	348	160
35°	281	285	298	300	298	176
45°	218	221	229	239	240	168
55°	152	155	163	172	177	136
65°	89	92	97	104	110	89
75°	36	38	40	42	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.2	418.2	418.2	418.2	418.2
2.5°	419.3	419.5	418.5	416.0	414.3
5°	417.7	417.6	416.0	413.7	412.4
7.5°	413.1	413.4	412.9	409.7	407.9
10°	408.6	408.7	407.4	404.9	402.8
12.5°	402.8	402.6	400.9	399.6	396.2
15°	393.6	394.6	393.6	391.9	389.1
17.5°	384.8	384.8	385.4	382.4	380.3
20°	374.8	375.3	375.3	372.9	370.5
22.5°	363.3	364.7	365.2	362.6	359.7
25°	349.6	352.3	353.9	351.4	348.3
27.5°	333.1	337.2	342.0	340.1	336.7
30°	314.6	320.7	328.7	327.1	324.7
32.5°	297.1	303.2	314.3	313.6	312.3
35°	281.2	285.0	298.0	299.6	298.5
37.5°	266.1	269.6	281.8	285.5	284.5
40°	250.2	254.0	263.6	270.2	270.6
42.5°	234.4	238.1	246.0	255.5	255.5
45°	217.7	221.4	228.6	239.1	240.3
47.5°	201.3	205.2	212.2	222.7	224.8
50°	185.2	188.8	195.8	206.0	209.2
52.5°	168.5	172.4	179.3	188.6	193.3
55°	152.5	155.0	162.6	171.6	176.6
57.5°	135.8	138.2	146.7	154.4	159.5
60°	119.7	122.7	129.3	137.2	143.1
62.5°	104.3	107.5	113.1	120.0	126.8
65°	89.3	91.7	97.2	104.1	110.1
67.5°	74.9	77.0	82.4	87.2	93.5
70°	60.2	63.0	67.0	71.7	75.7
72.5°	48.5	49.6	53.0	56.4	60.6
75°	35.8	37.8	40.5	42.4	44.8
77.5°	25.7	26.8	28.4	30.0	32.3
80°	17.2	17.7	19.1	19.4	21.2
82.5°	10.4	10.8	11.1	11.2	11.9
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	2.7	2.2	1.6
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)