

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: P554182

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-87-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: P554182
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

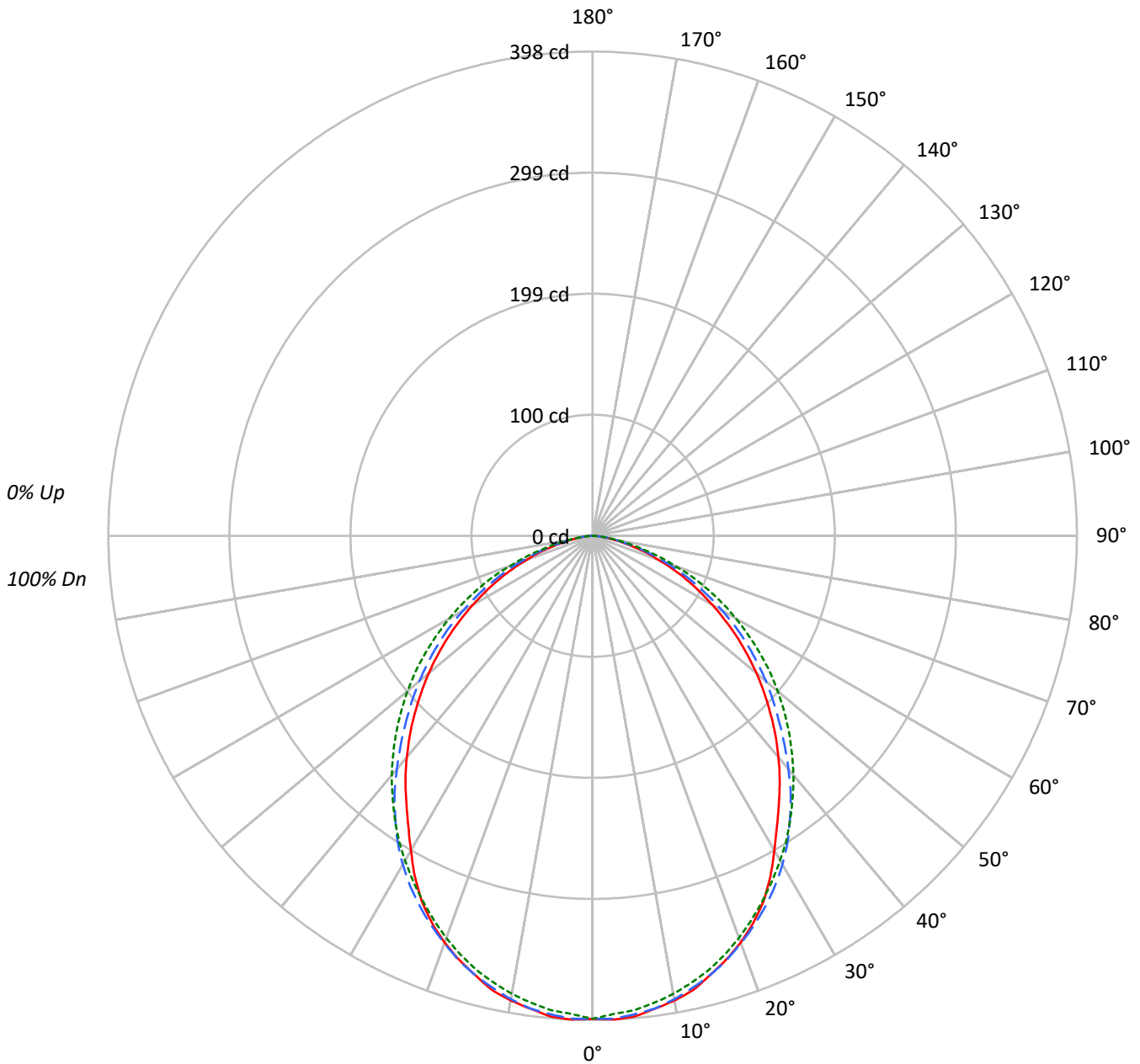
Lumens per Lamp: N/A
Luminaire Lumens: 918.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2137	2137	2137
5°	2143	2133	2115
10°	2120	2114	2090
15°	2082	2082	2058
20°	2038	2041	2014
25°	1971	1995	1964
30°	1856	1940	1915
35°	1754	1859	1862
40°	1669	1759	1804
45°	1573	1652	1737
50°	1473	1557	1663
55°	1358	1449	1573
60°	1223	1322	1463
65°	1080	1175	1331
70°	900	1001	1130
75°	707	799	886
80°	505	561	623
85°	327	327	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	4.1
10°-20°	105.0	11.4
20°-30°	153.5	16.7
30°-40°	174.2	19.0
40°-50°	168.2	18.3
50°-60°	138.7	15.1
60°-70°	92.4	10.1
70°-80°	41.3	4.5
80°-90°	7.4	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°	295.8	32.2
0°-40°	470.0	51.2
0°-60°	776.9	84.6
0°-90°	918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	397	396	395	393	392	38
15°	374	375	374	372	369	105
25°	332	334	336	334	331	152
35°	267	271	283	284	283	167
45°	207	210	217	227	228	159
55°	145	147	154	163	168	129
65°	85	87	92	99	104	84
75°	34	36	38	40	43	37
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	397.0	397.0	397.0	397.0	397.0
2.5°	398.1	398.2	397.3	394.9	393.4
5°	396.6	396.4	394.9	392.7	391.5
7.5°	392.1	392.4	392.0	388.9	387.2
10°	387.9	388.0	386.8	384.4	382.4
12.5°	382.4	382.2	380.5	379.3	376.1
15°	373.7	374.6	373.7	372.0	369.4
17.5°	365.3	365.3	365.9	363.0	361.0
20°	355.8	356.3	356.3	354.0	351.7
22.5°	344.8	346.2	346.7	344.2	341.5
25°	331.9	334.5	336.0	333.6	330.7
27.5°	316.2	320.1	324.7	322.9	319.7
30°	298.6	304.4	312.1	310.5	308.2
32.5°	282.0	287.8	298.3	297.7	296.5
35°	266.9	270.6	282.9	284.5	283.4
37.5°	252.6	255.9	267.5	271.0	270.1
40°	237.5	241.1	250.3	256.5	256.8
42.5°	222.5	226.0	233.5	242.5	242.5
45°	206.7	210.2	217.0	227.0	228.2
47.5°	191.1	194.8	201.5	211.4	213.4
50°	175.9	179.2	185.9	195.5	198.6
52.5°	160.0	163.7	170.2	179.1	183.5
55°	144.7	147.2	154.4	162.9	167.6
57.5°	128.9	131.2	139.3	146.6	151.5
60°	113.6	116.5	122.8	130.3	135.9
62.5°	99.0	102.0	107.4	113.9	120.3
65°	84.8	87.1	92.3	98.8	104.5
67.5°	71.1	73.1	78.2	82.8	88.8
70°	57.2	59.8	63.6	68.0	71.8
72.5°	46.1	47.1	50.3	53.5	57.5
75°	34.0	35.8	38.4	40.3	42.6
77.5°	24.4	25.5	27.0	28.5	30.7
80°	16.3	16.8	18.1	18.5	20.1
82.5°	9.9	10.2	10.5	10.7	11.3
85°	5.3	5.3	5.3	5.0	5.0
87.5°	3.1	3.1	2.6	2.1	1.5
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)