

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: P555085

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-81-96-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: P555085
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-LD4-2LO-50-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

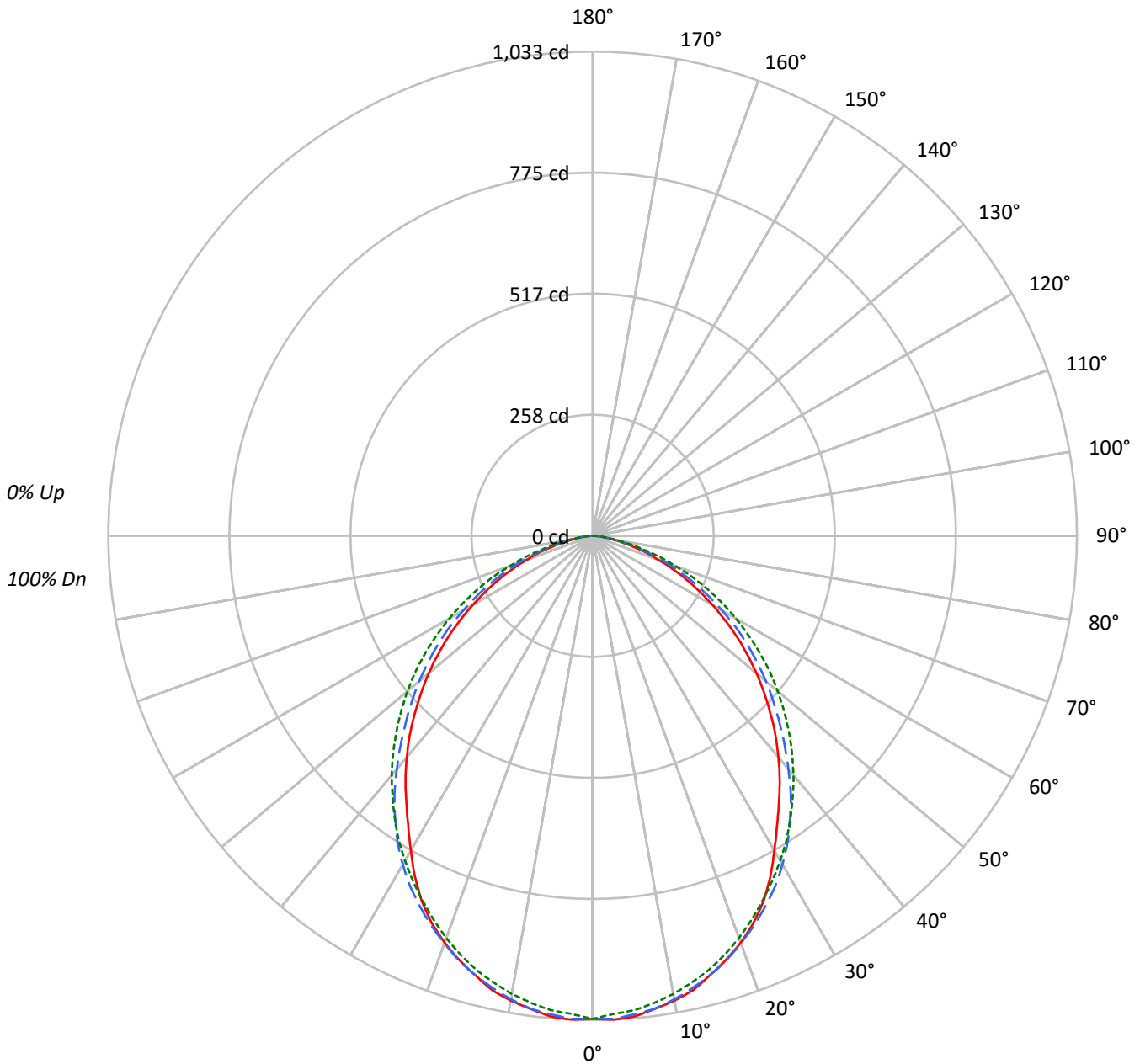
Lumens per Lamp: N/A
Luminaire Lumens: 2383.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5547	5547	5547
5°	5561	5538	5491
10°	5502	5487	5425
15°	5405	5405	5343
20°	5290	5297	5229
25°	5116	5179	5097
30°	4818	5034	4973
35°	4552	4825	4833
40°	4331	4565	4684
45°	4083	4288	4508
50°	3822	4041	4316
55°	3525	3760	4083
60°	3175	3430	3798
65°	2803	3050	3454
70°	2337	2598	2935
75°	1836	2075	2298
80°	1314	1460	1621
85°	858	858	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.1
10°-20°	272.6	11.4
20°-30°	398.3	16.7
30°-40°	452.2	19.0
40°-50°	436.5	18.3
50°-60°	360.1	15.1
60°-70°	239.8	10.1
70°-80°	107.3	4.5
80°-90°	19.2	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°	768.0	32.2
0°-40°	1220.1	51.2
0°-60°	2016.7	84.6
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1029	1029	1025	1020	1016	97
15°	970	972	970	966	959	273
25°	862	868	872	866	858	395
35°	693	702	734	738	736	434
45°	536	546	563	589	592	414
55°	376	382	401	423	435	335
65°	220	226	240	257	271	218
75°	88	93	100	104	110	97
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.6	1030.6	1030.6	1030.6	1030.6
2.5°	1033.4	1033.8	1031.4	1025.0	1021.1
5°	1029.4	1029.0	1025.0	1019.5	1016.3
7.5°	1017.9	1018.7	1017.5	1009.6	1005.2
10°	1006.8	1007.2	1004.1	997.7	992.6
12.5°	992.6	992.2	987.8	984.7	976.3
15°	970.0	972.4	970.0	965.7	958.9
17.5°	948.2	948.2	949.8	942.3	937.1
20°	923.7	924.9	924.9	918.9	913.0
22.5°	895.2	898.7	899.9	893.6	886.5
25°	861.5	868.3	872.2	865.9	858.4
27.5°	820.7	831.0	842.9	838.2	829.9
30°	775.2	790.3	810.1	806.1	800.2
32.5°	732.1	747.1	774.4	772.8	769.7
35°	692.9	702.4	734.4	738.4	735.6
37.5°	655.6	664.4	694.4	703.6	701.2
40°	616.5	626.0	649.7	665.9	666.7
42.5°	577.7	586.8	606.2	629.5	629.5
45°	536.5	545.6	563.4	589.1	592.3
47.5°	496.1	505.6	523.0	548.7	553.9
50°	456.5	465.2	482.6	507.6	515.5
52.5°	415.3	424.8	441.8	464.8	476.3
55°	375.7	382.1	400.7	422.8	435.1
57.5°	334.6	340.5	361.5	380.5	393.2
60°	295.0	302.5	318.7	338.1	352.8
62.5°	257.0	264.9	278.7	295.8	312.4
65°	220.1	226.1	239.5	256.6	271.2
67.5°	184.5	189.6	203.1	215.0	230.4
70°	148.5	155.2	165.1	176.6	186.5
72.5°	119.6	122.3	130.7	139.0	149.3
75°	88.3	93.0	99.8	104.5	110.5
77.5°	63.3	66.1	70.1	74.0	79.6
80°	42.4	43.6	47.1	47.9	52.3
82.5°	25.7	26.5	27.3	27.7	29.3
85°	13.9	13.9	13.9	13.1	13.1
87.5°	7.9	7.9	6.7	5.5	4.0
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)