

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: P555111

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-87-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: P555111
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

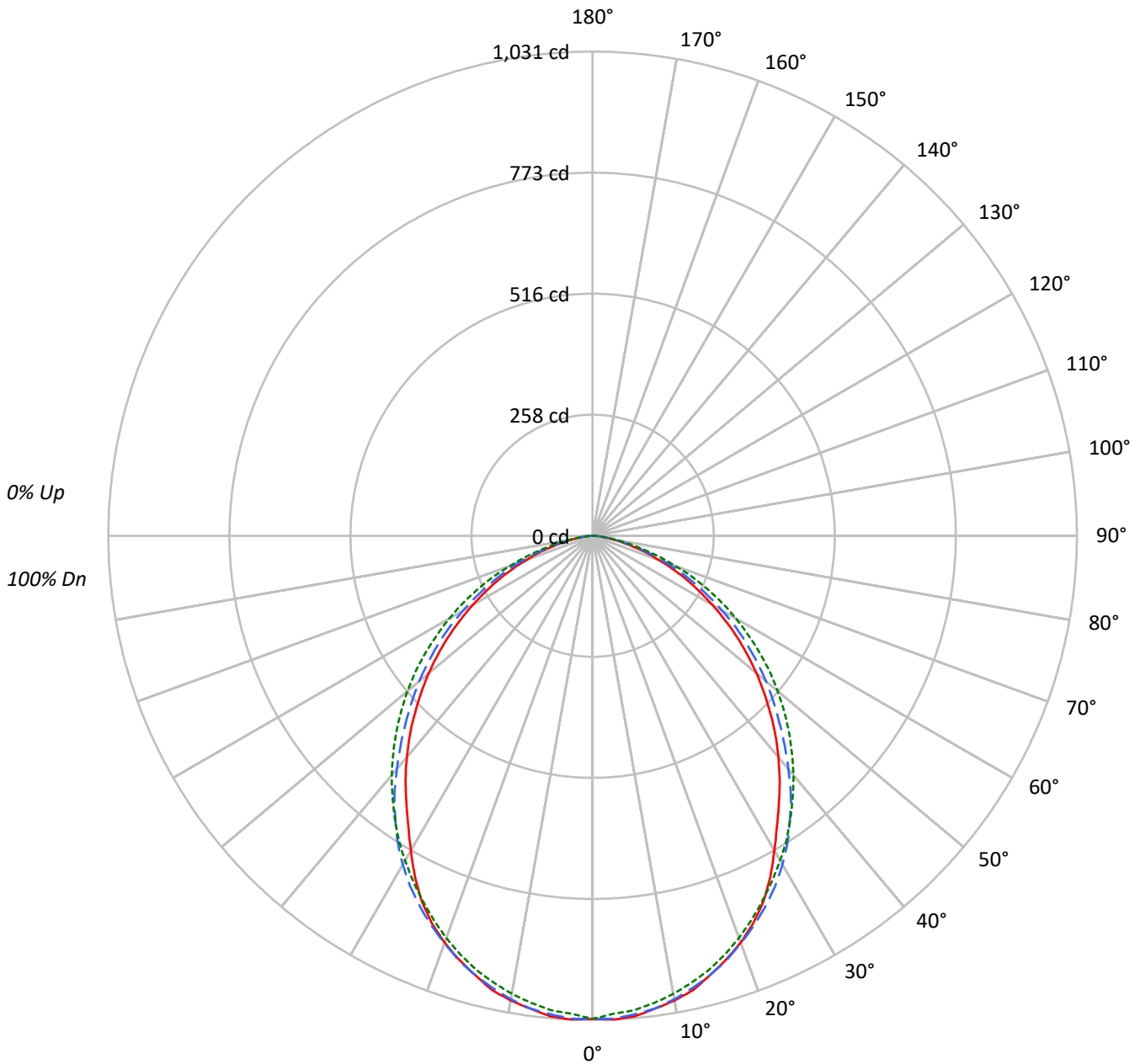
Lumens per Lamp: N/A
Luminaire Lumens: 2378.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	5535	5535	5535
5°	5549	5526	5479
10°	5491	5476	5413
15°	5394	5394	5332
20°	5279	5286	5218
25°	5105	5169	5087
30°	4808	5024	4962
35°	4543	4815	4823
40°	4322	4555	4674
45°	4074	4279	4499
50°	3814	4032	4307
55°	3518	3751	4074
60°	3168	3423	3789
65°	2798	3044	3446
70°	2332	2593	2928
75°	1832	2071	2292
80°	1311	1457	1618
85°	852	852	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	4.1
10°-20°	272.0	11.4
20°-30°	397.5	16.7
30°-40°	451.2	19.0
40°-50°	435.6	18.3
50°-60°	359.3	15.1
60°-70°	239.3	10.1
70°-80°	107.1	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°	766.4	32.2
0°-40°	1217.6	51.2
0°-60°	2012.5	84.6
0°-90°	2378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1027	1027	1023	1017	1014	97
15°	968	970	968	964	957	273
25°	860	866	870	864	857	394
35°	691	701	733	737	734	433
45°	535	544	562	588	591	413
55°	375	381	400	422	434	335
65°	220	226	239	256	271	218
75°	88	93	100	104	110	96
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°	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1031.2	1031.6	1029.2	1022.9	1018.9
5°	1027.2	1026.8	1022.9	1017.4	1014.2
7.5°	1015.8	1016.6	1015.4	1007.5	1003.1
10°	1004.7	1005.1	1002.0	995.6	990.5
12.5°	990.5	990.1	985.8	982.6	974.3
15°	968.0	970.3	968.0	963.6	956.9
17.5°	946.2	946.2	947.8	940.3	935.2
20°	921.7	922.9	922.9	917.0	911.1
22.5°	893.3	896.9	898.0	891.7	884.6
25°	859.7	866.4	870.4	864.1	856.6
27.5°	819.0	829.3	841.2	836.4	828.1
30°	773.6	788.6	808.4	804.4	798.5
32.5°	730.5	745.5	772.8	771.2	768.1
35°	691.4	700.9	732.9	736.8	734.1
37.5°	654.3	663.0	693.0	702.1	699.7
40°	615.2	624.6	648.3	664.5	665.3
42.5°	576.4	585.5	604.9	628.2	628.2
45°	535.3	544.4	562.2	587.9	591.1
47.5°	495.0	504.5	521.9	547.6	552.7
50°	455.5	464.2	481.6	506.5	514.4
52.5°	414.5	423.9	440.9	463.8	475.3
55°	374.9	381.3	399.8	422.0	434.2
57.5°	333.9	339.8	360.7	379.7	392.3
60°	294.3	301.9	318.0	337.4	352.0
62.5°	256.4	264.3	278.1	295.1	311.7
65°	219.7	225.6	239.0	256.0	270.6
67.5°	184.1	189.2	202.7	214.5	229.9
70°	148.2	154.9	164.8	176.2	186.1
72.5°	119.3	122.1	130.4	138.7	148.9
75°	88.1	92.8	99.6	104.3	110.2
77.5°	63.2	66.0	69.9	73.9	79.4
80°	42.3	43.5	47.0	47.8	52.2
82.5°	25.7	26.5	27.3	27.7	29.2
85°	13.8	13.8	13.8	13.0	13.0
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)