

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: P555030

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-82-87-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: P555030
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-40-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

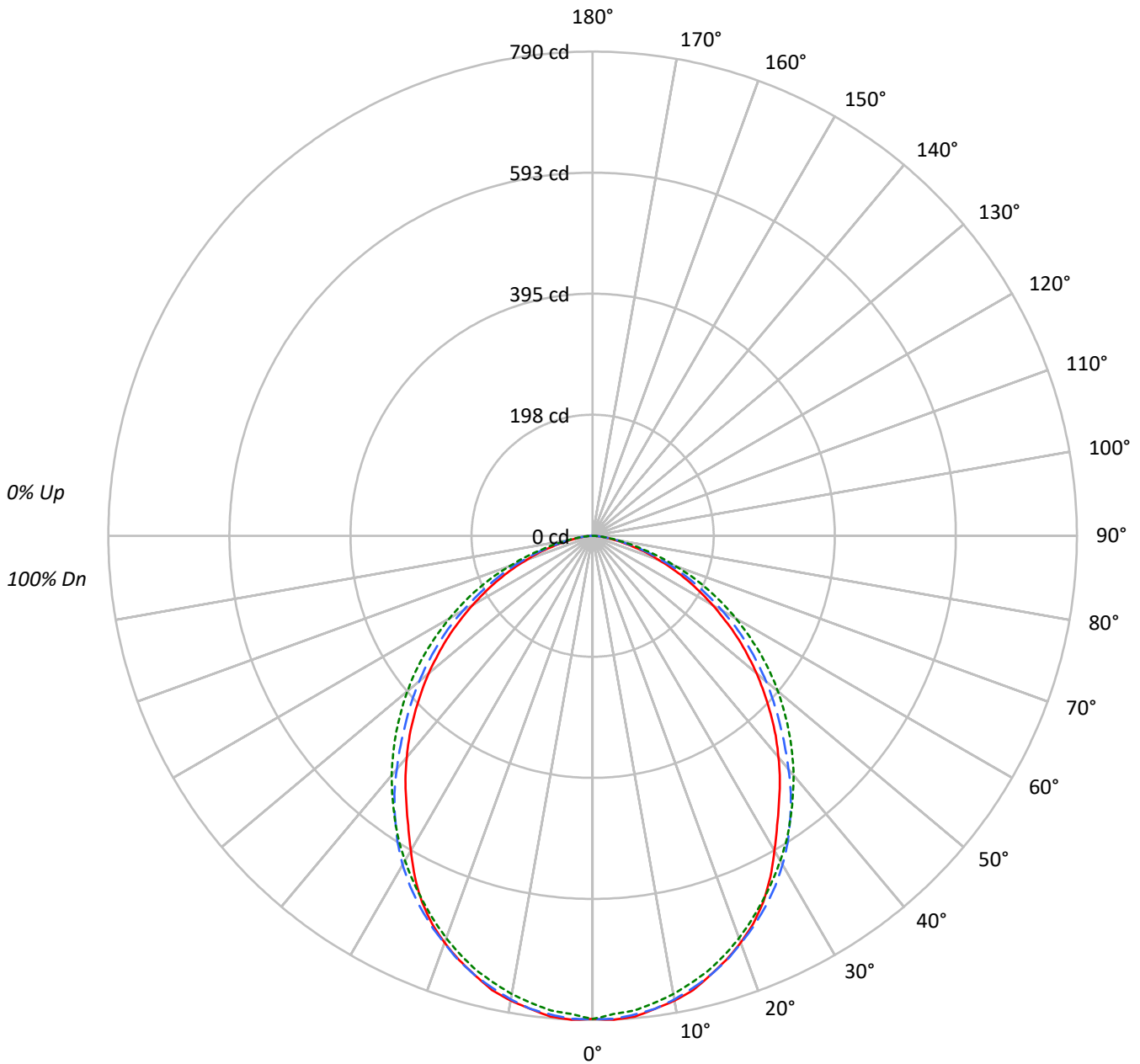
Lumens per Lamp: N/A
Luminaire Lumens: 1823.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4243	4243	4243
5°	4254	4237	4200
10°	4209	4198	4150
15°	4135	4135	4087
20°	4047	4052	4000
25°	3914	3962	3899
30°	3685	3851	3804
35°	3482	3691	3698
40°	3313	3492	3584
45°	3124	3280	3449
50°	2924	3091	3302
55°	2697	2876	3124
60°	2428	2624	2905
65°	2145	2333	2642
70°	1788	1987	2245
75°	1404	1587	1757
80°	1004	1116	1240
85°	655	655	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	4.1
10°-20°	208.5	11.4
20°-30°	304.7	16.7
30°-40°	345.9	19.0
40°-50°	333.9	18.3
50°-60°	275.5	15.1
60°-70°	183.4	10.1
70°-80°	82.1	4.5
80°-90°	14.7	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°	587.5	32.2
0°-40°	933.4	51.2
0°-60°	1542.8	84.6
0°-90°	1823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	788	787	784	780	778	75
15°	742	744	742	739	734	209
25°	659	664	667	662	657	302
35°	530	537	562	565	563	332
45°	410	417	431	451	453	317
55°	287	292	306	324	333	257
65°	168	173	183	196	208	167
75°	68	71	76	80	84	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.4	788.4	788.4	788.4	788.4
2.5°	790.5	790.8	789.0	784.2	781.1
5°	787.5	787.2	784.2	779.9	777.5
7.5°	778.7	779.3	778.4	772.3	769.0
10°	770.2	770.5	768.1	763.3	759.3
12.5°	759.3	759.0	755.7	753.3	746.9
15°	742.1	743.9	742.1	738.7	733.6
17.5°	725.4	725.4	726.6	720.9	716.9
20°	706.6	707.5	707.5	703.0	698.4
22.5°	684.8	687.5	688.4	683.6	678.2
25°	659.1	664.2	667.2	662.4	656.6
27.5°	627.9	635.7	644.8	641.2	634.8
30°	593.0	604.6	619.7	616.7	612.1
32.5°	560.0	571.5	592.4	591.2	588.8
35°	530.0	537.3	561.8	564.9	562.8
37.5°	501.6	508.2	531.3	538.2	536.4
40°	471.6	478.9	497.0	509.4	510.1
42.5°	441.9	448.9	463.7	481.6	481.6
45°	410.4	417.4	431.0	450.7	453.1
47.5°	379.5	386.8	400.1	419.8	423.7
50°	349.2	355.9	369.2	388.3	394.4
52.5°	317.7	325.0	338.0	355.6	364.4
55°	287.4	292.3	306.5	323.5	332.9
57.5°	255.9	260.5	276.5	291.1	300.8
60°	225.6	231.4	243.8	258.7	269.9
62.5°	196.6	202.6	213.2	226.3	239.0
65°	168.4	172.9	183.2	196.3	207.5
67.5°	141.1	145.1	155.4	164.5	176.3
70°	113.6	118.7	126.3	135.1	142.7
72.5°	91.5	93.6	100.0	106.3	114.2
75°	67.5	71.2	76.3	80.0	84.5
77.5°	48.5	50.6	53.6	56.6	60.9
80°	32.4	33.3	36.0	36.6	40.0
82.5°	19.7	20.3	20.9	21.2	22.4
85°	10.6	10.6	10.6	10.0	10.0
87.5°	6.1	6.1	5.1	4.2	3.0
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)