

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: P555020

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-96-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: P555020
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-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

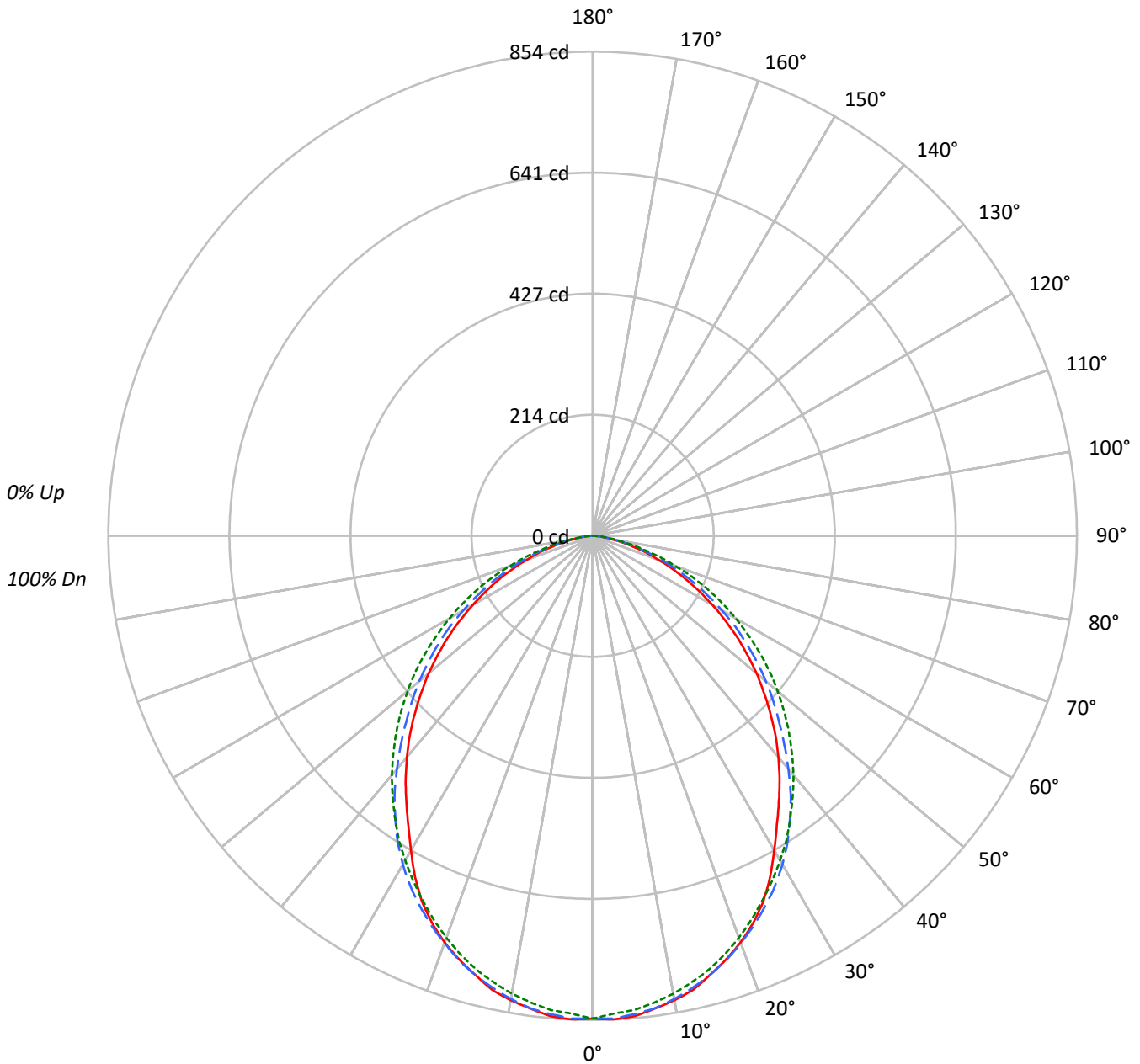
Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4583	4583	4583
5°	4595	4576	4537
10°	4546	4534	4482
15°	4466	4466	4415
20°	4371	4377	4321
25°	4227	4280	4211
30°	3980	4159	4108
35°	3761	3987	3993
40°	3579	3771	3870
45°	3374	3543	3725
50°	3158	3339	3566
55°	2913	3107	3373
60°	2623	2834	3138
65°	2316	2520	2854
70°	1931	2146	2425
75°	1518	1713	1899
80°	1085	1206	1339
85°	704	704	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	4.1
10°-20°	225.2	11.4
20°-30°	329.2	16.7
30°-40°	373.6	19.0
40°-50°	360.7	18.3
50°-60°	297.5	15.1
60°-70°	198.1	10.1
70°-80°	88.7	4.5
80°-90°	15.9	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°	634.6	32.2
0°-40°	1008.2	51.2
0°-60°	1666.4	84.6
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	851	850	847	842	840	81
15°	802	804	802	798	792	226
25°	712	717	721	716	709	326
35°	572	580	607	610	608	359
45°	443	451	466	487	489	342
55°	310	316	331	349	360	277
65°	182	187	198	212	224	180
75°	73	77	82	86	91	80
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.5	851.5	851.5	851.5	851.5
2.5°	853.8	854.2	852.2	847.0	843.7
5°	850.6	850.2	847.0	842.4	839.8
7.5°	841.1	841.7	840.7	834.2	830.6
10°	831.9	832.2	829.6	824.4	820.1
12.5°	820.1	819.8	816.2	813.6	806.7
15°	801.5	803.5	801.5	797.9	792.3
17.5°	783.5	783.5	784.8	778.6	774.3
20°	763.2	764.2	764.2	759.3	754.4
22.5°	739.7	742.6	743.6	738.4	732.5
25°	711.9	717.4	720.7	715.5	709.2
27.5°	678.2	686.7	696.5	692.6	685.7
30°	640.5	653.0	669.3	666.1	661.1
32.5°	604.9	617.3	639.9	638.6	636.0
35°	572.5	580.3	606.8	610.1	607.8
37.5°	541.7	548.9	573.8	581.3	579.4
40°	509.4	517.2	536.8	550.2	550.9
42.5°	477.3	484.8	500.8	520.2	520.2
45°	443.3	450.8	465.5	486.8	489.4
47.5°	409.9	417.8	432.2	453.4	457.7
50°	377.2	384.4	398.8	419.4	425.9
52.5°	343.2	351.0	365.1	384.1	393.5
55°	310.5	315.7	331.1	349.4	359.5
57.5°	276.4	281.3	298.7	314.4	324.8
60°	243.7	249.9	263.3	279.4	291.5
62.5°	212.3	218.9	230.3	244.4	258.1
65°	181.9	186.8	197.9	212.0	224.1
67.5°	152.4	156.7	167.8	177.6	190.4
70°	122.7	128.2	136.4	145.9	154.1
72.5°	98.8	101.1	108.0	114.8	123.3
75°	73.0	76.9	82.4	86.4	91.3
77.5°	52.3	54.6	57.9	61.2	65.8
80°	35.0	36.0	38.9	39.6	43.2
82.5°	21.3	21.9	22.6	22.9	24.2
85°	11.4	11.4	11.4	10.8	10.8
87.5°	6.5	6.5	5.6	4.6	3.3
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)