

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: P554990

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-97-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: P554990
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-35-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

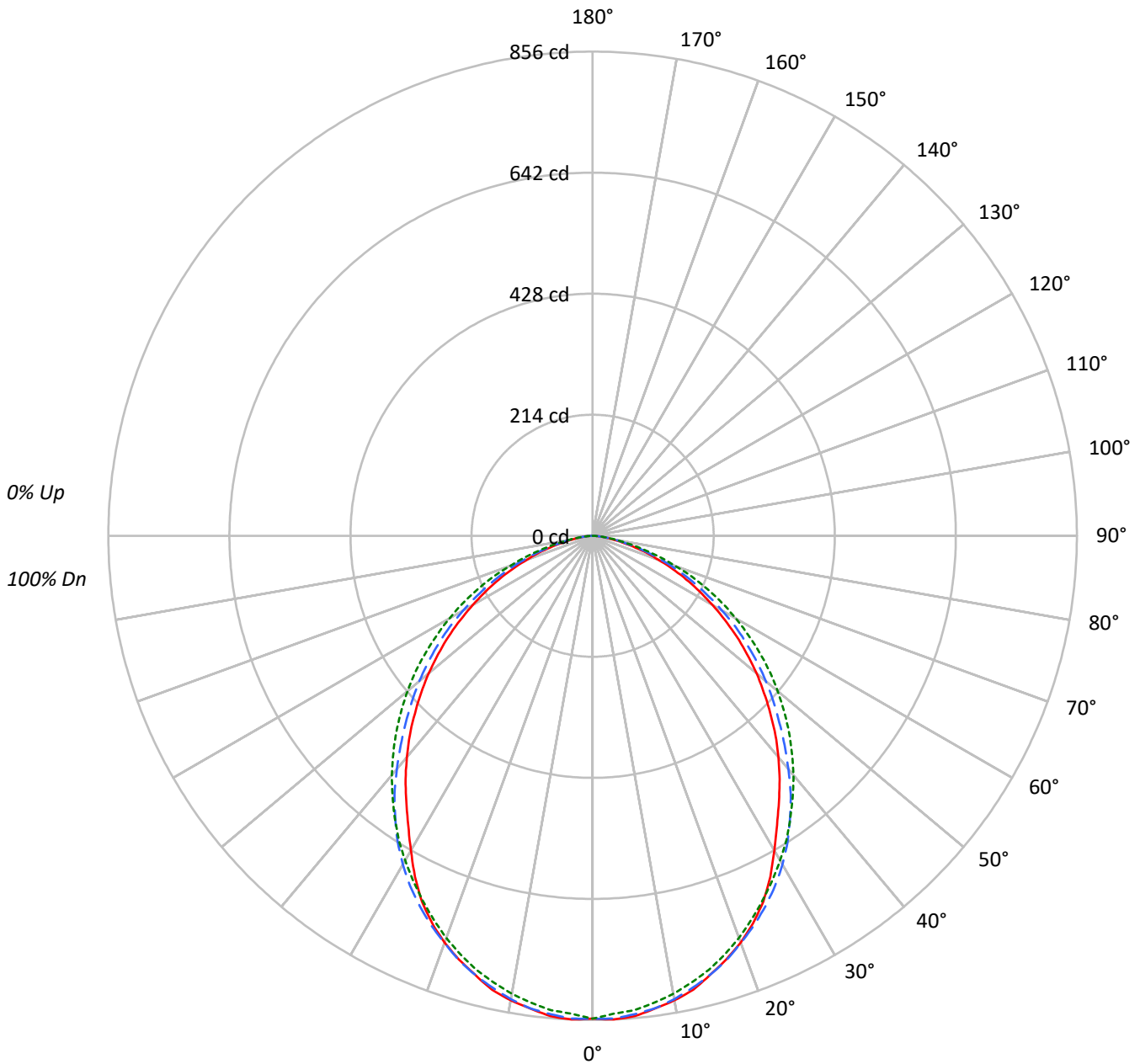
Lumens per Lamp: N/A
Luminaire Lumens: 1974.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4595	4595	4595
5°	4607	4587	4548
10°	4558	4545	4493
15°	4477	4477	4426
20°	4383	4388	4332
25°	4238	4290	4222
30°	3991	4170	4119
35°	3771	3997	4004
40°	3587	3781	3880
45°	3382	3552	3734
50°	3166	3347	3575
55°	2920	3114	3382
60°	2630	2842	3145
65°	2323	2527	2862
70°	1936	2153	2431
75°	1520	1718	1903
80°	1088	1209	1342
85°	710	710	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	4.1
10°-20°	225.8	11.4
20°-30°	330.0	16.7
30°-40°	374.6	19.0
40°-50°	361.6	18.3
50°-60°	298.3	15.1
60°-70°	198.6	10.1
70°-80°	88.9	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°	636.2	32.2
0°-40°	1010.7	51.2
0°-60°	1670.6	84.6
0°-90°	1974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	853	852	849	844	842	81
15°	804	806	804	800	794	227
25°	714	719	722	717	711	327
35°	574	582	608	612	609	360
45°	444	452	467	488	491	343
55°	311	316	332	350	360	278
65°	182	187	198	212	225	181
75°	73	77	83	87	92	80
85°	12	12	12	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.7	853.7	853.7	853.7	853.7
2.5°	856.0	856.3	854.4	849.1	845.8
5°	852.7	852.4	849.1	844.5	841.9
7.5°	843.2	843.9	842.9	836.3	832.7
10°	834.0	834.4	831.7	826.5	822.2
12.5°	822.2	821.9	818.3	815.7	808.8
15°	803.5	805.5	803.5	799.9	794.3
17.5°	785.5	785.5	786.8	780.6	776.3
20°	765.2	766.1	766.1	761.2	756.3
22.5°	741.5	744.5	745.5	740.2	734.3
25°	713.7	719.2	722.5	717.3	711.0
27.5°	679.9	688.4	698.2	694.3	687.4
30°	642.2	654.6	671.0	667.7	662.8
32.5°	606.4	618.9	641.5	640.2	637.6
35°	573.9	581.8	608.4	611.7	609.4
37.5°	543.1	550.3	575.3	582.8	580.8
40°	510.6	518.5	538.2	551.6	552.3
42.5°	478.5	486.1	502.1	521.5	521.5
45°	444.4	451.9	466.7	488.0	490.6
47.5°	410.9	418.8	433.2	454.6	458.8
50°	378.1	385.4	399.8	420.5	427.0
52.5°	344.0	351.9	366.0	385.0	394.5
55°	311.2	316.5	331.9	350.3	360.4
57.5°	277.1	282.1	299.4	315.2	325.7
60°	244.3	250.6	264.0	280.1	292.2
62.5°	212.9	219.4	230.9	245.0	258.8
65°	182.4	187.3	198.4	212.5	224.7
67.5°	152.8	157.1	168.2	178.1	190.9
70°	123.0	128.6	136.8	146.3	154.5
72.5°	99.0	101.3	108.2	115.1	123.6
75°	73.1	77.1	82.6	86.6	91.5
77.5°	52.5	54.8	58.1	61.3	65.9
80°	35.1	36.1	39.0	39.7	43.3
82.5°	21.3	22.0	22.6	23.0	24.3
85°	11.5	11.5	11.5	10.8	10.8
87.5°	6.6	6.6	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)