

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: P554916

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-86-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: P554916
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-30-UNV-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

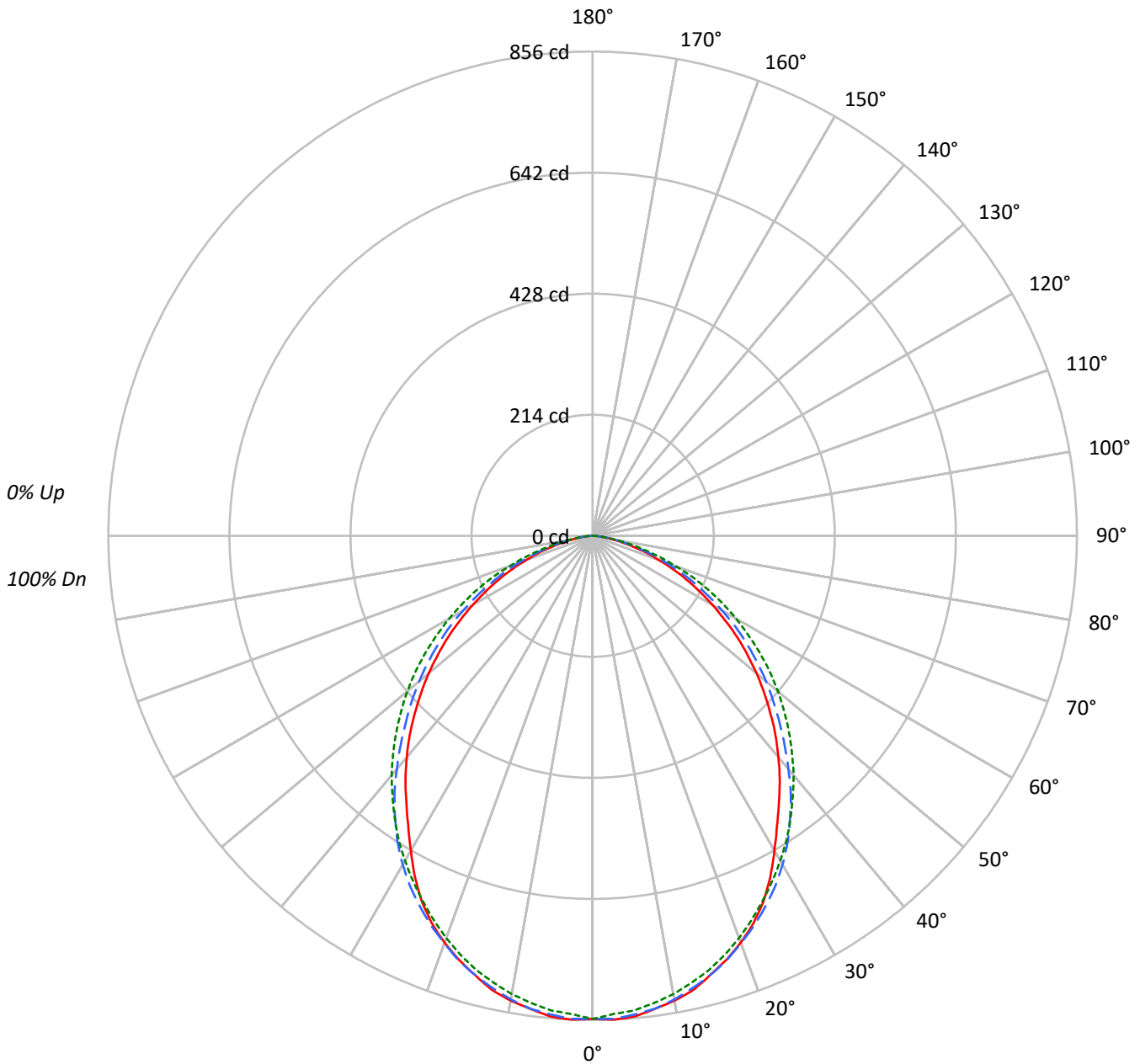
Lumens per Lamp: N/A
Luminaire Lumens: 1975.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554916

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554916

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-86-EDD-90

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°	4597	4597	4597
5°	4609	4589	4551
10°	4560	4548	4495
15°	4479	4479	4428
20°	4384	4390	4334
25°	4240	4293	4225
30°	3993	4172	4121
35°	3773	3999	4006
40°	3589	3783	3882
45°	3384	3554	3736
50°	3167	3349	3577
55°	2922	3116	3384
60°	2632	2843	3147
65°	2323	2528	2863
70°	1937	2153	2433
75°	1522	1720	1903
80°	1088	1209	1342
85°	710	710	667



TEST NUMBER: P554916

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	4.1
10°-20°	225.9	11.4
20°-30°	330.2	16.7
30°-40°	374.7	19.0
40°-50°	361.8	18.3
50°-60°	298.4	15.1
60°-70°	198.7	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°	636.5	32.2
0°-40°	1011.2	51.2
0°-60°	1671.4	84.6
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	853	853	850	845	842	81
15°	804	806	804	800	795	227
25°	714	720	723	718	711	327
35°	574	582	609	612	610	360
45°	445	452	467	488	491	343
55°	311	317	332	350	361	278
65°	182	187	198	213	225	181
75°	73	77	83	87	92	80
85°	12	12	12	11	11	15
90°	0	0	0	0	0	



TEST NUMBER: P554916

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.1	854.1	854.1	854.1	854.1
2.5°	856.4	856.8	854.8	849.5	846.3
5°	853.2	852.8	849.5	844.9	842.3
7.5°	843.6	844.3	843.3	836.7	833.1
10°	834.4	834.8	832.2	826.9	822.6
12.5°	822.6	822.3	818.7	816.1	809.2
15°	803.9	805.9	803.9	800.3	794.7
17.5°	785.9	785.9	787.2	781.0	776.7
20°	765.5	766.5	766.5	761.6	756.7
22.5°	741.9	744.9	745.9	740.6	734.7
25°	714.0	719.6	722.9	717.6	711.4
27.5°	680.2	688.8	698.6	694.7	687.8
30°	642.5	655.0	671.4	668.1	663.2
32.5°	606.7	619.2	641.8	640.5	637.9
35°	574.2	582.1	608.7	612.0	609.7
37.5°	543.4	550.6	575.5	583.1	581.1
40°	510.9	518.8	538.5	551.9	552.6
42.5°	478.7	486.3	502.4	521.7	521.7
45°	444.6	452.2	466.9	488.3	490.9
47.5°	411.2	419.0	433.5	454.8	459.1
50°	378.3	385.6	400.0	420.7	427.2
52.5°	344.2	352.1	366.2	385.2	394.7
55°	311.4	316.7	332.1	350.4	360.6
57.5°	277.3	282.2	299.6	315.3	325.8
60°	244.5	250.7	264.1	280.2	292.4
62.5°	213.0	219.5	231.0	245.1	258.9
65°	182.4	187.4	198.5	212.6	224.8
67.5°	152.9	157.2	168.3	178.2	191.0
70°	123.1	128.6	136.8	146.3	154.6
72.5°	99.1	101.4	108.3	115.2	123.7
75°	73.2	77.1	82.7	86.6	91.5
77.5°	52.5	54.8	58.1	61.4	66.0
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)