

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: P554985

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-88-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: P554985
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

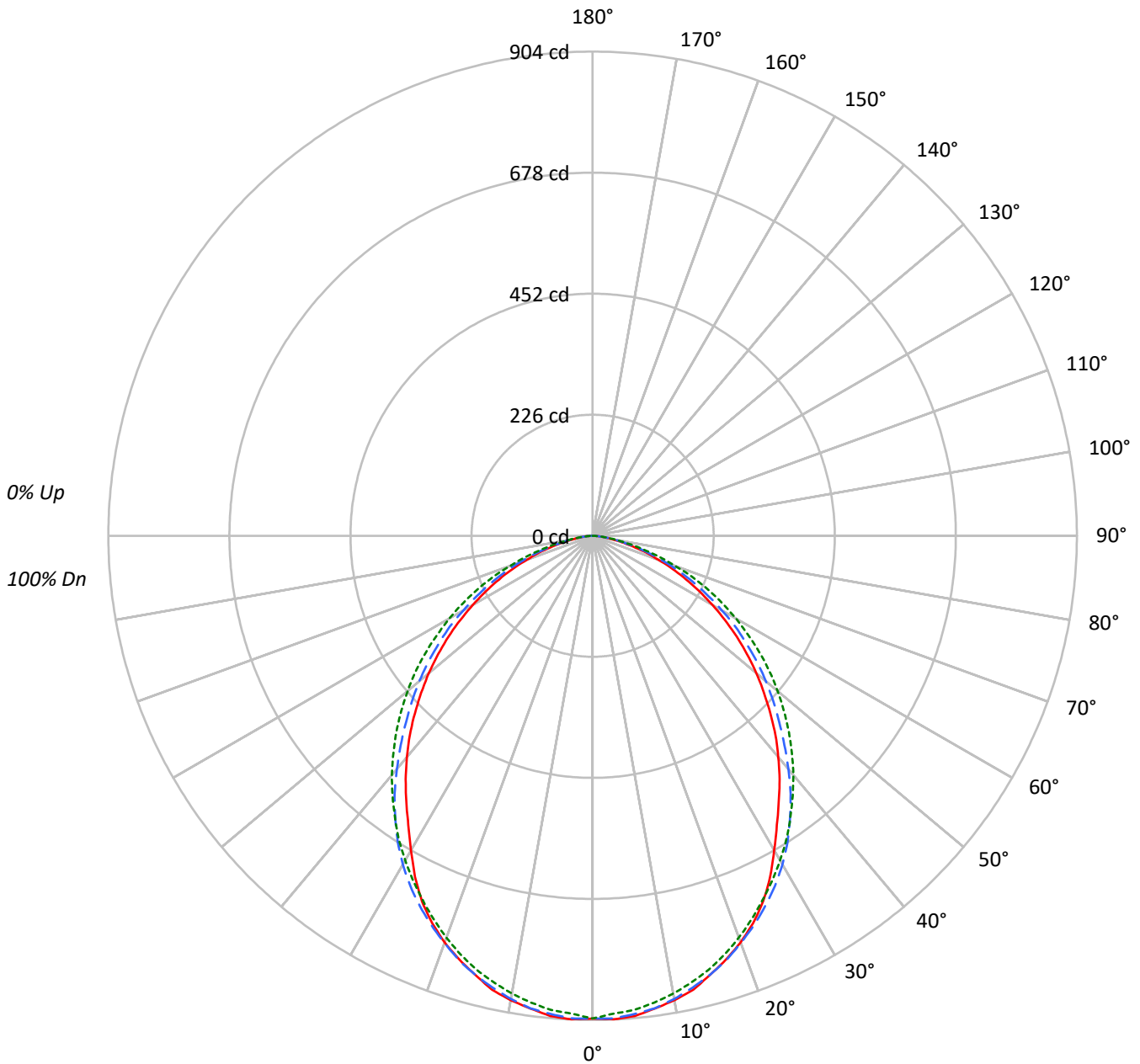
Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	4851	4851	4851
5°	4863	4843	4802
10°	4812	4799	4744
15°	4727	4727	4673
20°	4627	4632	4573
25°	4474	4530	4458
30°	4213	4402	4349
35°	3981	4220	4227
40°	3788	3992	4097
45°	3571	3750	3943
50°	3342	3534	3774
55°	3083	3288	3570
60°	2777	3000	3321
65°	2451	2668	3021
70°	2043	2272	2567
75°	1605	1815	2009
80°	1147	1277	1416
85°	747	747	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	4.1
10°-20°	238.4	11.4
20°-30°	348.4	16.7
30°-40°	395.4	19.0
40°-50°	381.7	18.3
50°-60°	314.9	15.1
60°-70°	209.7	10.1
70°-80°	93.8	4.5
80°-90°	16.8	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°	671.6	32.2
0°-40°	1067.0	51.2
0°-60°	1763.7	84.6
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	900	900	896	892	889	85
15°	848	850	848	844	839	239
25°	753	759	763	757	751	345
35°	606	614	642	646	643	380
45°	469	477	493	515	518	362
55°	329	334	350	370	380	293
65°	192	198	210	224	237	191
75°	77	81	87	91	97	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.3	901.3	901.3	901.3	901.3
2.5°	903.7	904.0	902.0	896.4	893.0
5°	900.2	899.9	896.4	891.6	888.8
7.5°	890.2	890.9	889.9	882.9	879.1
10°	880.5	880.8	878.1	872.5	868.0
12.5°	868.0	867.7	863.9	861.1	853.8
15°	848.3	850.4	848.3	844.5	838.6
17.5°	829.3	829.3	830.6	824.1	819.6
20°	807.8	808.8	808.8	803.6	798.4
22.5°	782.9	786.0	787.0	781.5	775.2
25°	753.4	759.3	762.8	757.2	750.7
27.5°	717.8	726.8	737.2	733.0	725.7
30°	677.9	691.1	708.4	705.0	699.8
32.5°	640.2	653.4	677.3	675.9	673.1
35°	605.9	614.2	642.3	645.7	643.3
37.5°	573.4	581.0	607.3	615.3	613.2
40°	539.1	547.4	568.2	582.4	583.1
42.5°	505.2	513.1	530.1	550.5	550.5
45°	469.2	477.1	492.7	515.2	518.0
47.5°	433.8	442.2	457.4	479.9	484.4
50°	399.2	406.8	422.1	443.9	450.8
52.5°	363.2	371.5	386.4	406.5	416.5
55°	328.6	334.1	350.4	369.8	380.5
57.5°	292.6	297.8	316.1	332.7	343.8
60°	258.0	264.5	278.7	295.7	308.5
62.5°	224.7	231.6	243.8	258.6	273.2
65°	192.5	197.7	209.5	224.4	237.2
67.5°	161.4	165.9	177.6	188.0	201.5
70°	129.8	135.7	144.4	154.4	163.1
72.5°	104.6	107.0	114.3	121.5	130.5
75°	77.2	81.4	87.3	91.4	96.6
77.5°	55.4	57.8	61.3	64.7	69.6
80°	37.0	38.1	41.2	41.9	45.7
82.5°	22.5	23.2	23.9	24.2	25.6
85°	12.1	12.1	12.1	11.4	11.4
87.5°	6.9	6.9	5.9	4.8	3.5
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)