

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: P553845

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-86-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: P553845
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-LD4-1HI-30-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

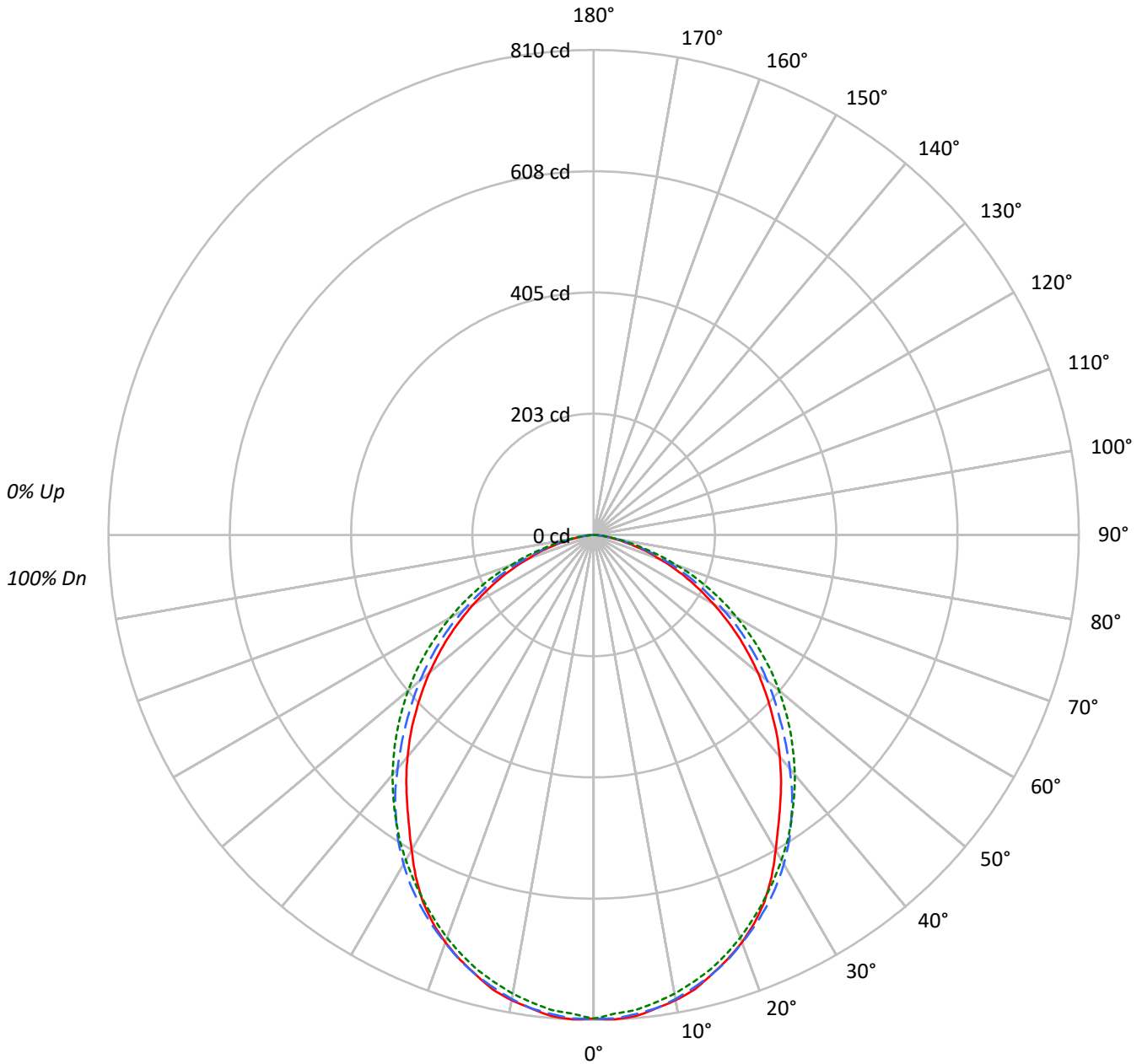
Lumens per Lamp: N/A
Luminaire Lumens: 1868.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4348	4348	4348
5°	4359	4341	4304
10°	4313	4301	4252
15°	4237	4237	4188
20°	4147	4152	4099
25°	4010	4060	3996
30°	3777	3946	3898
35°	3568	3782	3788
40°	3395	3578	3672
45°	3201	3361	3534
50°	2996	3167	3383
55°	2763	2947	3201
60°	2489	2689	2976
65°	2198	2392	2707
70°	1832	2036	2301
75°	1439	1626	1801
80°	1029	1144	1271
85°	673	673	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	4.1
10°-20°	213.7	11.4
20°-30°	312.3	16.7
30°-40°	354.4	19.0
40°-50°	342.2	18.3
50°-60°	282.3	15.1
60°-70°	188.0	10.1
70°-80°	84.1	4.5
80°-90°	15.0	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°	602.0	32.2
0°-40°	956.5	51.2
0°-60°	1580.9	84.6
0°-90°	1868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	807	807	804	799	797	76
15°	760	762	760	757	752	214
25°	675	681	684	679	673	309
35°	543	551	576	579	577	340
45°	420	428	442	462	464	324
55°	294	300	314	332	341	263
65°	173	177	188	201	213	171
75°	69	73	78	82	87	76
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.9	807.9	807.9	807.9	807.9
2.5°	810.0	810.3	808.5	803.5	800.4
5°	806.9	806.6	803.5	799.2	796.7
7.5°	797.9	798.6	797.6	791.4	788.0
10°	789.2	789.6	787.1	782.1	778.1
12.5°	778.1	777.8	774.3	771.9	765.3
15°	760.4	762.2	760.4	757.0	751.7
17.5°	743.3	743.3	744.5	738.7	734.6
20°	724.1	725.0	725.0	720.3	715.7
22.5°	701.7	704.5	705.4	700.5	694.9
25°	675.3	680.6	683.7	678.8	672.9
27.5°	643.4	651.4	660.8	657.0	650.5
30°	607.7	619.5	635.0	631.9	627.2
32.5°	573.9	585.6	607.1	605.8	603.3
35°	543.1	550.6	575.7	578.8	576.6
37.5°	514.0	520.8	544.4	551.5	549.6
40°	483.2	490.7	509.3	522.0	522.6
42.5°	452.8	460.0	475.2	493.5	493.5
45°	420.5	427.7	441.6	461.8	464.3
47.5°	388.9	396.3	410.0	430.2	434.2
50°	357.8	364.7	378.3	397.9	404.1
52.5°	325.6	333.0	346.4	364.4	373.4
55°	294.5	299.5	314.1	331.5	341.1
57.5°	262.3	266.9	283.4	298.3	308.2
60°	231.2	237.1	249.8	265.0	276.5
62.5°	201.4	207.6	218.5	231.8	244.9
65°	172.6	177.2	187.8	201.1	212.6
67.5°	144.6	148.7	159.2	168.5	180.6
70°	116.4	121.7	129.4	138.4	146.2
72.5°	93.7	95.9	102.4	108.9	117.0
75°	69.2	72.9	78.2	81.9	86.6
77.5°	49.7	51.8	54.9	58.0	62.4
80°	33.2	34.1	36.9	37.6	41.0
82.5°	20.2	20.8	21.4	21.7	23.0
85°	10.9	10.9	10.9	10.2	10.2
87.5°	6.2	6.2	5.3	4.3	3.1
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)