

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: P553993

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-81-88-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: P553993
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-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

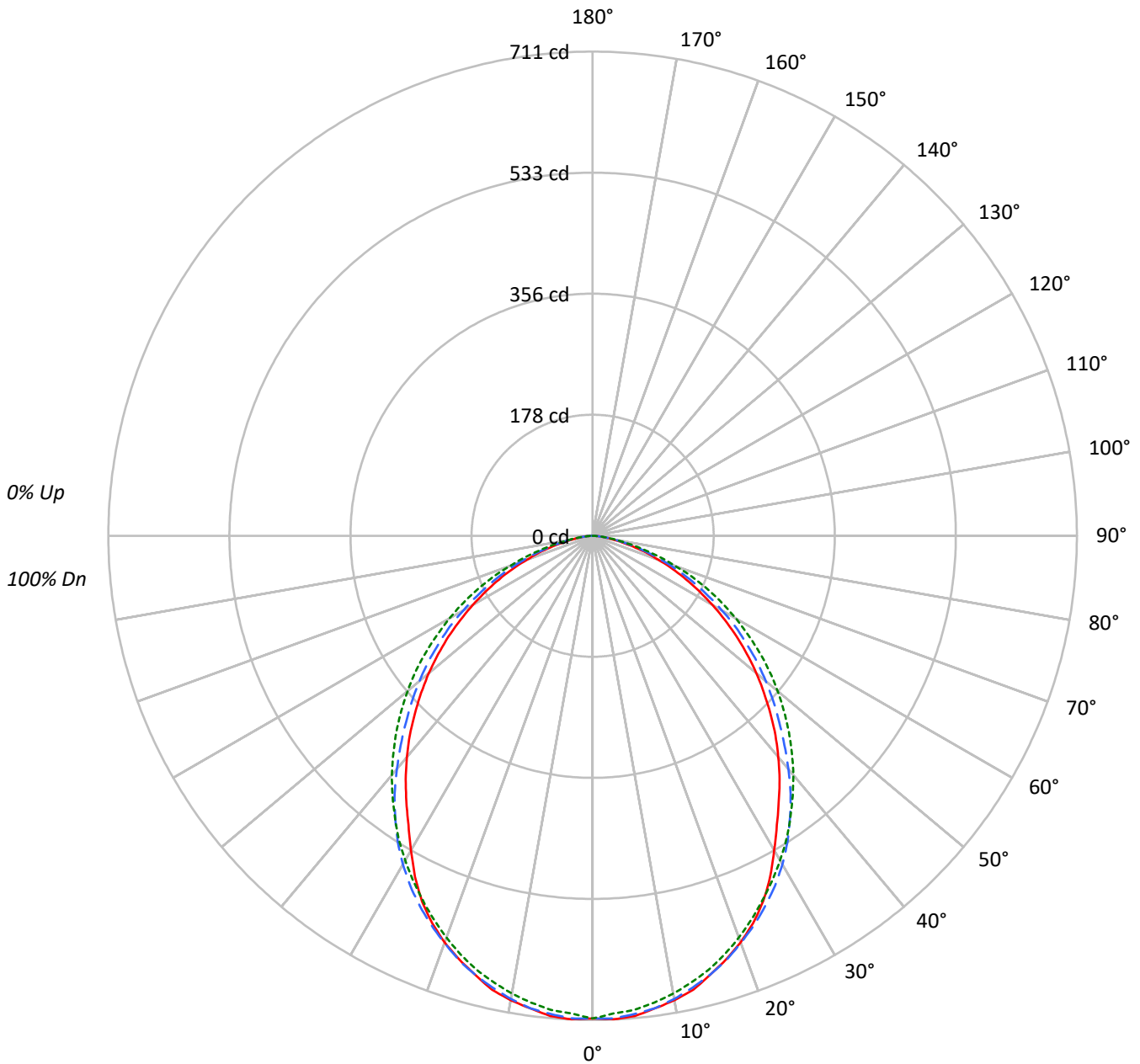
Lumens per Lamp: N/A
Luminaire Lumens: 1639.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3815	3815	3815
5°	3825	3809	3776
10°	3785	3774	3731
15°	3718	3718	3675
20°	3639	3643	3596
25°	3518	3562	3506
30°	3314	3462	3420
35°	3131	3319	3324
40°	2979	3140	3222
45°	2809	2949	3101
50°	2629	2779	2968
55°	2425	2586	2808
60°	2184	2359	2611
65°	1928	2097	2375
70°	1607	1788	2019
75°	1262	1426	1580
80°	902	1004	1113
85°	587	587	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	4.1
10°-20°	187.5	11.4
20°-30°	274.0	16.7
30°-40°	311.0	19.0
40°-50°	300.2	18.3
50°-60°	247.7	15.1
60°-70°	164.9	10.1
70°-80°	73.8	4.5
80°-90°	13.2	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°	528.2	32.2
0°-40°	839.2	51.2
0°-60°	1387.1	84.6
0°-90°	1639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	708	708	705	701	699	67
15°	667	669	667	664	660	188
25°	592	597	600	596	590	271
35°	476	483	505	508	506	299
45°	369	375	388	405	407	285
55°	258	263	276	291	299	231
65°	151	156	165	176	186	150
75°	61	64	69	72	76	66
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.8	708.8	708.8	708.8	708.8
2.5°	710.7	711.0	709.4	705.0	702.3
5°	708.0	707.7	705.0	701.2	699.0
7.5°	700.1	700.7	699.8	694.4	691.4
10°	692.5	692.8	690.6	686.2	682.7
12.5°	682.7	682.4	679.4	677.2	671.5
15°	667.2	668.8	667.2	664.2	659.5
17.5°	652.2	652.2	653.3	648.1	644.6
20°	635.3	636.1	636.1	632.0	627.9
22.5°	615.7	618.1	619.0	614.6	609.7
25°	592.5	597.2	599.9	595.5	590.4
27.5°	564.5	571.6	579.7	576.5	570.8
30°	533.2	543.5	557.1	554.4	550.3
32.5°	503.5	513.9	532.6	531.6	529.4
35°	476.5	483.1	505.1	507.9	506.0
37.5°	450.9	456.9	477.6	483.9	482.3
40°	424.0	430.5	446.9	458.0	458.6
42.5°	397.3	403.6	416.9	433.0	433.0
45°	369.0	375.2	387.5	405.2	407.4
47.5°	341.2	347.7	359.7	377.4	381.0
50°	314.0	320.0	331.9	349.1	354.5
52.5°	285.7	292.2	303.9	319.7	327.6
55°	258.4	262.8	275.6	290.8	299.3
57.5°	230.1	234.2	248.6	261.7	270.4
60°	202.9	208.0	219.2	232.6	242.6
62.5°	176.7	182.2	191.7	203.4	214.9
65°	151.4	155.5	164.7	176.5	186.5
67.5°	126.9	130.4	139.7	147.9	158.5
70°	102.1	106.7	113.6	121.5	128.3
72.5°	82.2	84.1	89.9	95.6	102.7
75°	60.7	64.0	68.6	71.9	76.0
77.5°	43.6	45.5	48.2	50.9	54.7
80°	29.1	30.0	32.4	32.9	35.9
82.5°	17.7	18.2	18.8	19.1	20.2
85°	9.5	9.5	9.5	9.0	9.0
87.5°	5.4	5.4	4.6	3.8	2.7
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)