

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: P554056

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-81-88-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: P554056
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-50-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

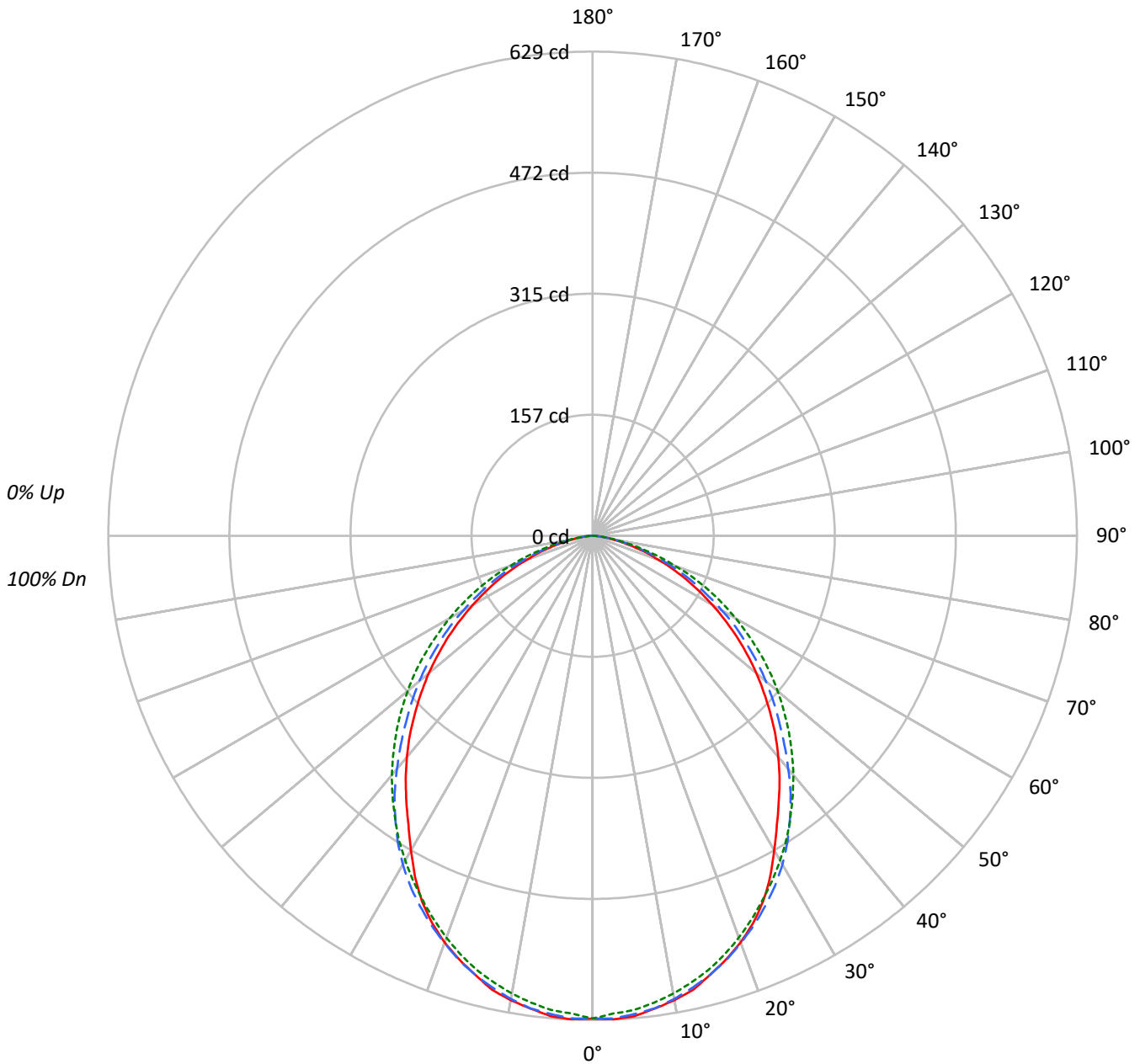
Lumens per Lamp: N/A
Luminaire Lumens: 1450.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3375	3375	3375
5°	3384	3370	3341
10°	3348	3339	3301
15°	3288	3288	3251
20°	3219	3223	3182
25°	3113	3151	3102
30°	2931	3063	3026
35°	2770	2936	2941
40°	2635	2777	2850
45°	2484	2609	2743
50°	2326	2459	2627
55°	2145	2288	2485
60°	1932	2087	2311
65°	1705	1857	2101
70°	1421	1581	1786
75°	1117	1262	1397
80°	800	890	986
85°	519	519	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.1
10°-20°	165.9	11.4
20°-30°	242.4	16.7
30°-40°	275.1	19.0
40°-50°	265.6	18.3
50°-60°	219.1	15.1
60°-70°	145.9	10.1
70°-80°	65.3	4.5
80°-90°	11.7	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°	467.3	32.2
0°-40°	742.4	51.2
0°-60°	1227.1	84.6
0°-90°	1450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	624	620	618	59
15°	590	592	590	588	584	166
25°	524	528	531	527	522	240
35°	422	427	447	449	448	264
45°	326	332	343	358	360	252
55°	229	232	244	257	265	204
65°	134	138	146	156	165	133
75°	54	57	61	64	67	59
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.1	627.1	627.1	627.1	627.1
2.5°	628.8	629.0	627.6	623.7	621.3
5°	626.4	626.1	623.7	620.3	618.4
7.5°	619.4	619.9	619.1	614.3	611.7
10°	612.6	612.9	610.9	607.1	604.0
12.5°	604.0	603.7	601.1	599.1	594.1
15°	590.2	591.7	590.2	587.6	583.5
17.5°	577.0	577.0	577.9	573.4	570.2
20°	562.0	562.8	562.8	559.2	555.5
22.5°	544.7	546.9	547.6	543.7	539.4
25°	524.2	528.3	530.7	526.9	522.3
27.5°	499.4	505.7	512.9	510.0	504.9
30°	471.7	480.9	492.9	490.5	486.9
32.5°	445.4	454.6	471.2	470.3	468.3
35°	421.6	427.4	446.9	449.3	447.6
37.5°	398.9	404.2	422.6	428.1	426.7
40°	375.1	380.9	395.3	405.2	405.7
42.5°	351.5	357.0	368.8	383.0	383.0
45°	326.4	332.0	342.8	358.5	360.4
47.5°	301.9	307.6	318.2	333.9	337.0
50°	277.8	283.1	293.7	308.8	313.7
52.5°	252.7	258.5	268.9	282.8	289.8
55°	228.6	232.5	243.8	257.3	264.8
57.5°	203.6	207.2	220.0	231.5	239.2
60°	179.5	184.1	193.9	205.7	214.7
62.5°	156.4	161.2	169.6	180.0	190.1
65°	133.9	137.6	145.8	156.1	165.0
67.5°	112.3	115.4	123.6	130.8	140.2
70°	90.3	94.4	100.5	107.4	113.5
72.5°	72.8	74.4	79.5	84.6	90.8
75°	53.7	56.6	60.7	63.6	67.2
77.5°	38.5	40.2	42.6	45.1	48.4
80°	25.8	26.5	28.7	29.2	31.8
82.5°	15.7	16.1	16.6	16.9	17.8
85°	8.4	8.4	8.4	8.0	8.0
87.5°	4.8	4.8	4.1	3.4	2.4
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)