

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: P553920

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-84-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: P553920
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-35-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

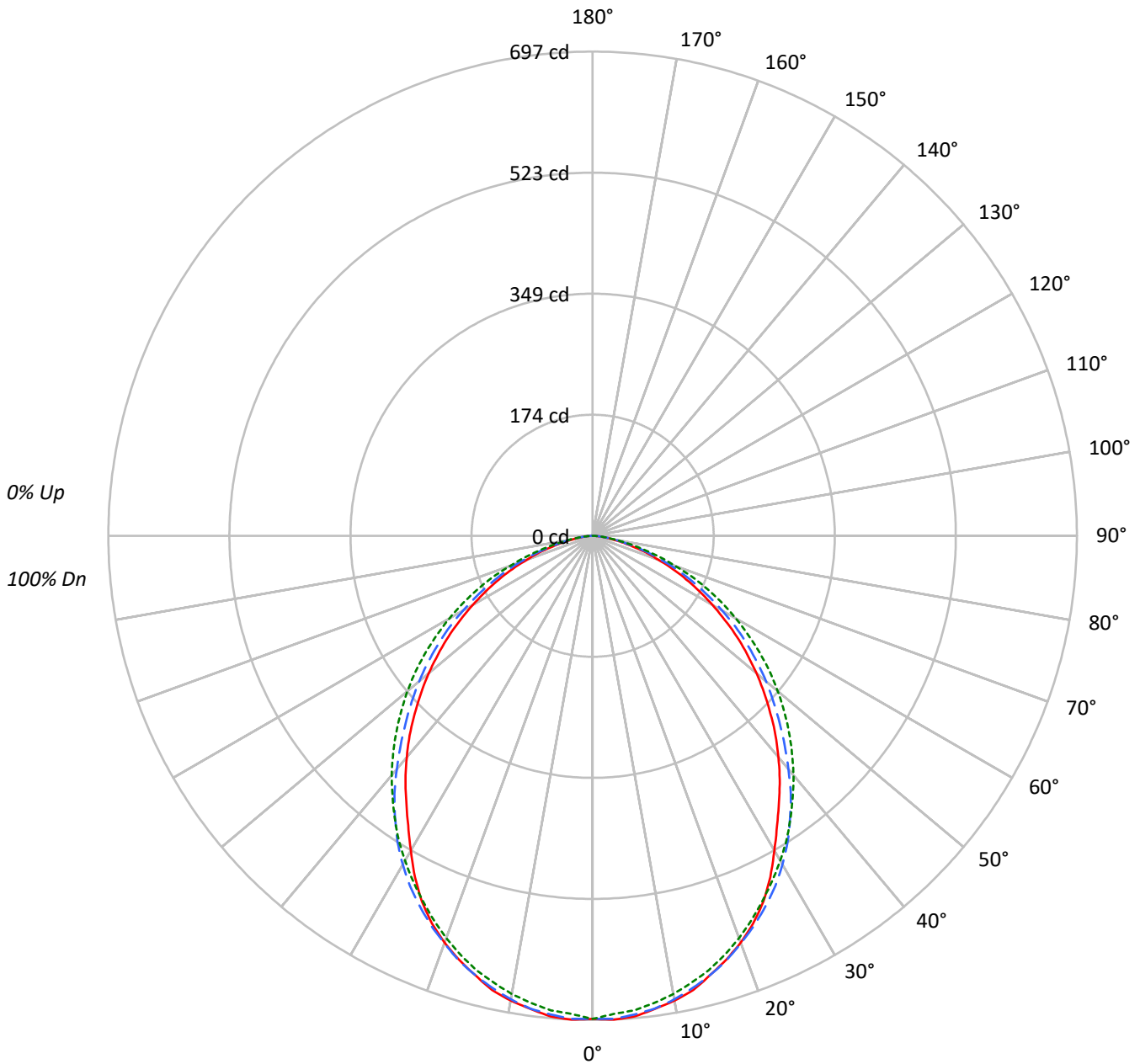
Lumens per Lamp: N/A
Luminaire Lumens: 1608.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3743	3743	3743
5°	3753	3737	3705
10°	3713	3703	3660
15°	3647	3647	3606
20°	3570	3574	3529
25°	3452	3495	3439
30°	3251	3397	3355
35°	3072	3256	3261
40°	2923	3080	3161
45°	2755	2894	3042
50°	2579	2727	2912
55°	2379	2537	2755
60°	2142	2315	2562
65°	1891	2058	2330
70°	1577	1753	1980
75°	1239	1399	1549
80°	886	986	1094
85°	580	580	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	4.1
10°-20°	183.9	11.4
20°-30°	268.8	16.7
30°-40°	305.1	19.0
40°-50°	294.5	18.3
50°-60°	243.0	15.1
60°-70°	161.8	10.1
70°-80°	72.4	4.5
80°-90°	13.0	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°	518.2	32.2
0°-40°	823.3	51.2
0°-60°	1360.9	84.6
0°-90°	1608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	695	694	692	688	686	66
15°	654	656	654	652	647	185
25°	581	586	589	584	579	266
35°	468	474	496	498	496	293
45°	362	368	380	398	400	279
55°	254	258	270	285	294	226
65°	148	152	162	173	183	147
75°	60	63	67	70	74	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.4	695.4	695.4	695.4	695.4
2.5°	697.3	697.6	696.0	691.7	689.0
5°	694.6	694.3	691.7	687.9	685.8
7.5°	686.9	687.4	686.6	681.3	678.3
10°	679.4	679.7	677.5	673.2	669.8
12.5°	669.8	669.5	666.6	664.4	658.8
15°	654.5	656.1	654.5	651.6	647.1
17.5°	639.8	639.8	640.9	635.8	632.4
20°	623.3	624.1	624.1	620.1	616.1
22.5°	604.0	606.5	607.3	603.0	598.2
25°	581.3	585.9	588.6	584.3	579.2
27.5°	553.8	560.8	568.8	565.6	560.0
30°	523.1	533.3	546.6	543.9	539.9
32.5°	494.0	504.1	522.6	521.5	519.4
35°	467.5	473.9	495.6	498.3	496.4
37.5°	442.4	448.3	468.6	474.7	473.1
40°	416.0	422.4	438.4	449.4	449.9
42.5°	389.8	395.9	409.0	424.8	424.8
45°	362.0	368.1	380.2	397.5	399.7
47.5°	334.8	341.2	352.9	370.3	373.8
50°	308.0	313.9	325.7	342.5	347.8
52.5°	280.3	286.7	298.2	313.6	321.4
55°	253.5	257.8	270.4	285.3	293.6
57.5°	225.8	229.8	243.9	256.7	265.3
60°	199.0	204.1	215.1	228.2	238.0
62.5°	173.4	178.7	188.1	199.6	210.8
65°	148.5	152.5	161.6	173.1	183.0
67.5°	124.5	128.0	137.1	145.1	155.5
70°	100.2	104.7	111.4	119.2	125.8
72.5°	80.7	82.6	88.2	93.8	100.7
75°	59.6	62.8	67.3	70.5	74.5
77.5°	42.7	44.6	47.3	50.0	53.7
80°	28.6	29.4	31.8	32.3	35.3
82.5°	17.4	17.9	18.4	18.7	19.8
85°	9.4	9.4	9.4	8.8	8.8
87.5°	5.3	5.3	4.5	3.7	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)