

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: P554467

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-93-85-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: P554467
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-LD4-1STD-35-UNV-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

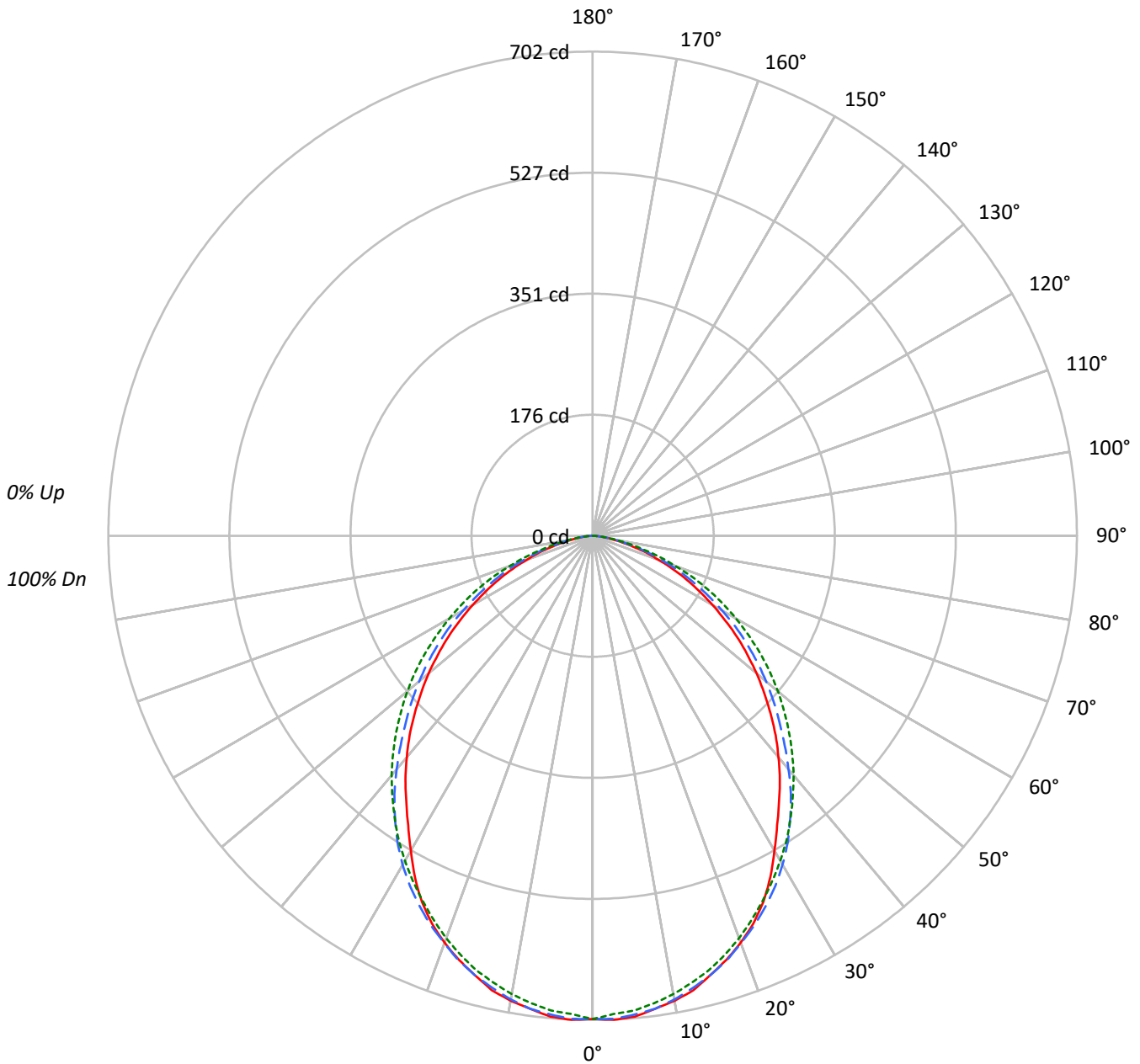
Lumens per Lamp: N/A
Luminaire Lumens: 1620.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3771	3771	3771
5°	3781	3764	3733
10°	3741	3730	3688
15°	3674	3674	3632
20°	3596	3601	3555
25°	3478	3521	3465
30°	3275	3422	3381
35°	3095	3280	3286
40°	2944	3103	3185
45°	2776	2915	3065
50°	2598	2747	2934
55°	2396	2556	2776
60°	2158	2333	2581
65°	1905	2073	2348
70°	1588	1766	1995
75°	1248	1410	1562
80°	893	992	1100
85°	580	580	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	4.1
10°-20°	185.3	11.4
20°-30°	270.8	16.7
30°-40°	307.4	19.0
40°-50°	296.7	18.3
50°-60°	244.8	15.1
60°-70°	163.0	10.1
70°-80°	72.9	4.5
80°-90°	13.1	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°	522.1	32.2
0°-40°	829.5	51.2
0°-60°	1371.0	84.6
0°-90°	1620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	700	700	697	693	691	66
15°	659	661	659	656	652	186
25°	586	590	593	589	584	268
35°	471	478	499	502	500	295
45°	365	371	383	400	403	281
55°	255	260	272	288	296	228
65°	150	154	163	174	184	148
75°	60	63	68	71	75	66
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°	700.6	700.6	700.6	700.6	700.6
2.5°	702.5	702.8	701.1	696.8	694.1
5°	699.8	699.5	696.8	693.1	690.9
7.5°	692.0	692.5	691.7	686.3	683.4
10°	684.5	684.7	682.6	678.3	674.8
12.5°	674.8	674.5	671.5	669.4	663.7
15°	659.4	661.0	659.4	656.5	651.9
17.5°	644.6	644.6	645.7	640.6	637.1
20°	627.9	628.7	628.7	624.7	620.7
22.5°	608.6	611.0	611.8	607.5	602.6
25°	585.7	590.3	592.9	588.6	583.5
27.5°	558.0	565.0	573.0	569.8	564.1
30°	527.0	537.2	550.7	548.0	544.0
32.5°	497.7	507.9	526.5	525.4	523.2
35°	471.0	477.5	499.3	502.0	500.1
37.5°	445.7	451.6	472.1	478.3	476.7
40°	419.1	425.5	441.7	452.7	453.3
42.5°	392.7	398.9	412.1	428.0	428.0
45°	364.7	370.9	383.0	400.5	402.7
47.5°	337.3	343.7	355.6	373.0	376.5
50°	310.3	316.3	328.1	345.1	350.4
52.5°	282.3	288.8	300.4	316.0	323.8
55°	255.4	259.7	272.4	287.5	295.8
57.5°	227.4	231.5	245.7	258.7	267.3
60°	200.5	205.6	216.7	229.9	239.8
62.5°	174.7	180.1	189.5	201.1	212.4
65°	149.6	153.7	162.8	174.4	184.4
67.5°	125.4	128.9	138.1	146.2	156.6
70°	100.9	105.5	112.2	120.0	126.8
72.5°	81.3	83.2	88.8	94.5	101.5
75°	60.0	63.3	67.8	71.1	75.1
77.5°	43.1	44.9	47.6	50.3	54.1
80°	28.8	29.6	32.0	32.6	35.5
82.5°	17.5	18.0	18.6	18.8	19.9
85°	9.4	9.4	9.4	8.9	8.9
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)