

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: P554431

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-97-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: P554431
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

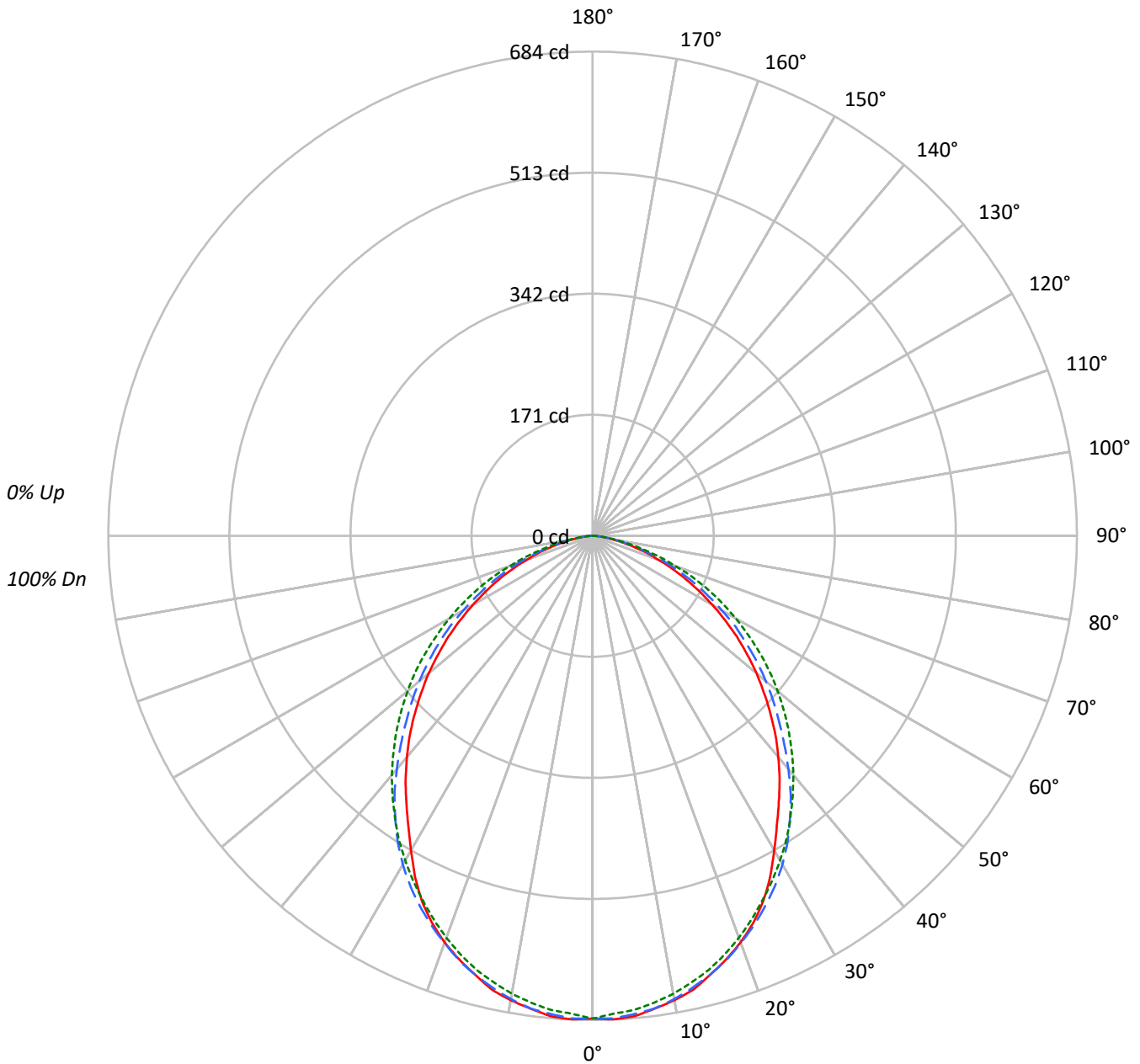
Lumens per Lamp: N/A
Luminaire Lumens: 1577.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3670	3670	3670
5°	3680	3665	3634
10°	3641	3631	3590
15°	3577	3577	3536
20°	3501	3506	3460
25°	3385	3428	3373
30°	3188	3332	3291
35°	3012	3193	3198
40°	2866	3021	3100
45°	2702	2837	2984
50°	2529	2674	2856
55°	2333	2488	2701
60°	2101	2270	2513
65°	1855	2018	2286
70°	1547	1720	1942
75°	1214	1372	1520
80°	868	967	1072
85°	568	568	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	4.1
10°-20°	180.4	11.4
20°-30°	263.6	16.7
30°-40°	299.2	19.0
40°-50°	288.9	18.3
50°-60°	238.3	15.1
60°-70°	158.7	10.1
70°-80°	71.0	4.5
80°-90°	12.7	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°	508.2	32.2
0°-40°	807.5	51.2
0°-60°	1334.6	84.6
0°-90°	1577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	681	681	678	675	673	64
15°	642	644	642	639	635	181
25°	570	575	577	573	568	261
35°	458	465	486	489	487	287
45°	355	361	373	390	392	274
55°	249	253	265	280	288	222
65°	146	150	158	170	180	144
75°	58	62	66	69	73	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.0	682.0	682.0	682.0	682.0
2.5°	683.8	684.1	682.5	678.3	675.7
5°	681.2	681.0	678.3	674.7	672.6
7.5°	673.6	674.2	673.4	668.1	665.2
10°	666.3	666.6	664.5	660.3	656.9
12.5°	656.9	656.6	653.7	651.6	646.1
15°	641.9	643.5	641.9	639.0	634.6
17.5°	627.5	627.5	628.6	623.6	620.2
20°	611.3	612.1	612.1	608.1	604.2
22.5°	592.4	594.8	595.5	591.4	586.6
25°	570.1	574.6	577.2	573.0	568.0
27.5°	543.1	550.0	557.8	554.7	549.2
30°	513.0	523.0	536.1	533.5	529.5
32.5°	484.5	494.4	512.5	511.4	509.3
35°	458.5	464.8	486.0	488.6	486.8
37.5°	433.9	439.7	459.6	465.6	464.0
40°	407.9	414.2	430.0	440.7	441.2
42.5°	382.3	388.3	401.1	416.6	416.6
45°	355.0	361.0	372.8	389.9	392.0
47.5°	328.3	334.6	346.1	363.1	366.6
50°	302.1	307.9	319.4	335.9	341.1
52.5°	274.8	281.1	292.4	307.6	315.2
55°	248.6	252.8	265.2	279.8	287.9
57.5°	221.4	225.3	239.2	251.8	260.2
60°	195.2	200.2	210.9	223.8	233.5
62.5°	170.0	175.3	184.5	195.7	206.7
65°	145.7	149.6	158.5	169.8	179.5
67.5°	122.1	125.5	134.4	142.3	152.5
70°	98.3	102.7	109.3	116.9	123.4
72.5°	79.1	81.0	86.5	92.0	98.8
75°	58.4	61.6	66.0	69.2	73.1
77.5°	41.9	43.8	46.4	49.0	52.7
80°	28.0	28.8	31.2	31.7	34.6
82.5°	17.0	17.6	18.1	18.3	19.4
85°	9.2	9.2	9.2	8.6	8.6
87.5°	5.2	5.2	4.5	3.7	2.6
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)