

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: P554354

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-85-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: P554354
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-30-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

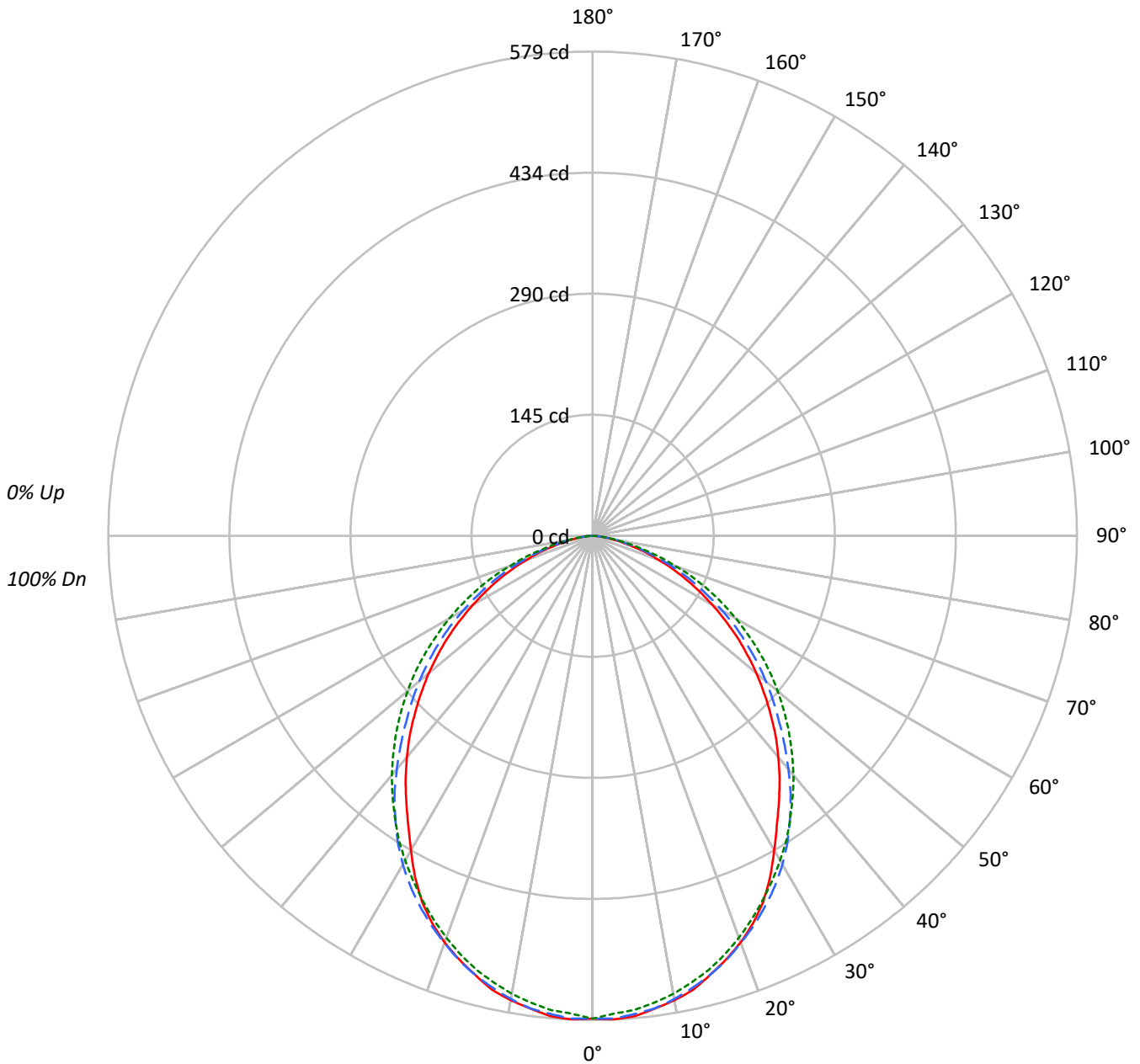
Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3108	3108	3108
5°	3116	3102	3076
10°	3082	3074	3039
15°	3028	3028	2993
20°	2964	2967	2930
25°	2866	2901	2856
30°	2699	2820	2786
35°	2551	2703	2708
40°	2426	2557	2624
45°	2287	2402	2525
50°	2141	2264	2418
55°	1975	2107	2288
60°	1778	1922	2127
65°	1570	1709	1934
70°	1309	1456	1644
75°	1029	1162	1287
80°	735	818	908
85°	482	482	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	4.1
10°-20°	152.7	11.4
20°-30°	223.2	16.7
30°-40°	253.3	19.0
40°-50°	244.5	18.3
50°-60°	201.7	15.1
60°-70°	134.3	10.1
70°-80°	60.1	4.5
80°-90°	10.8	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°	430.2	32.2
0°-40°	683.5	51.2
0°-60°	1129.8	84.6
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	577	576	574	571	569	55
15°	543	545	543	541	537	153
25°	483	486	489	485	481	221
35°	388	394	411	414	412	243
45°	300	306	316	330	332	232
55°	210	214	224	237	244	188
65°	123	127	134	144	152	122
75°	50	52	56	59	62	54
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.4	577.4	577.4	577.4	577.4
2.5°	578.9	579.1	577.8	574.2	572.0
5°	576.7	576.5	574.2	571.1	569.4
7.5°	570.3	570.7	570.0	565.6	563.2
10°	564.0	564.3	562.5	558.9	556.1
12.5°	556.1	555.8	553.4	551.6	547.0
15°	543.4	544.7	543.4	541.0	537.2
17.5°	531.2	531.2	532.1	527.9	525.0
20°	517.5	518.1	518.1	514.8	511.5
22.5°	501.5	503.5	504.2	500.6	496.6
25°	482.6	486.4	488.6	485.1	480.9
27.5°	459.8	465.6	472.2	469.6	464.9
30°	434.3	442.7	453.8	451.6	448.3
32.5°	410.1	418.5	433.8	433.0	431.2
35°	388.2	393.5	411.4	413.7	412.1
37.5°	367.3	372.2	389.0	394.1	392.8
40°	345.3	350.7	364.0	373.1	373.5
42.5°	323.6	328.7	339.6	352.7	352.7
45°	300.5	305.6	315.6	330.0	331.8
47.5°	277.9	283.2	293.0	307.4	310.3
50°	255.7	260.6	270.4	284.4	288.8
52.5°	232.7	238.0	247.5	260.4	266.8
55°	210.5	214.0	224.5	236.9	243.8
57.5°	187.4	190.8	202.5	213.2	220.3
60°	165.2	169.5	178.6	189.4	197.6
62.5°	144.0	148.4	156.1	165.7	175.0
65°	123.3	126.6	134.2	143.7	151.9
67.5°	103.4	106.2	113.8	120.4	129.1
70°	83.2	86.9	92.5	98.9	104.5
72.5°	67.0	68.5	73.2	77.9	83.6
75°	49.5	52.1	55.9	58.6	61.9
77.5°	35.5	37.0	39.3	41.5	44.6
80°	23.7	24.4	26.4	26.8	29.3
82.5°	14.4	14.9	15.3	15.5	16.4
85°	7.8	7.8	7.8	7.3	7.3
87.5°	4.4	4.4	3.8	3.1	2.2
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)