

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: P554453

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-82-86-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: P554453
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

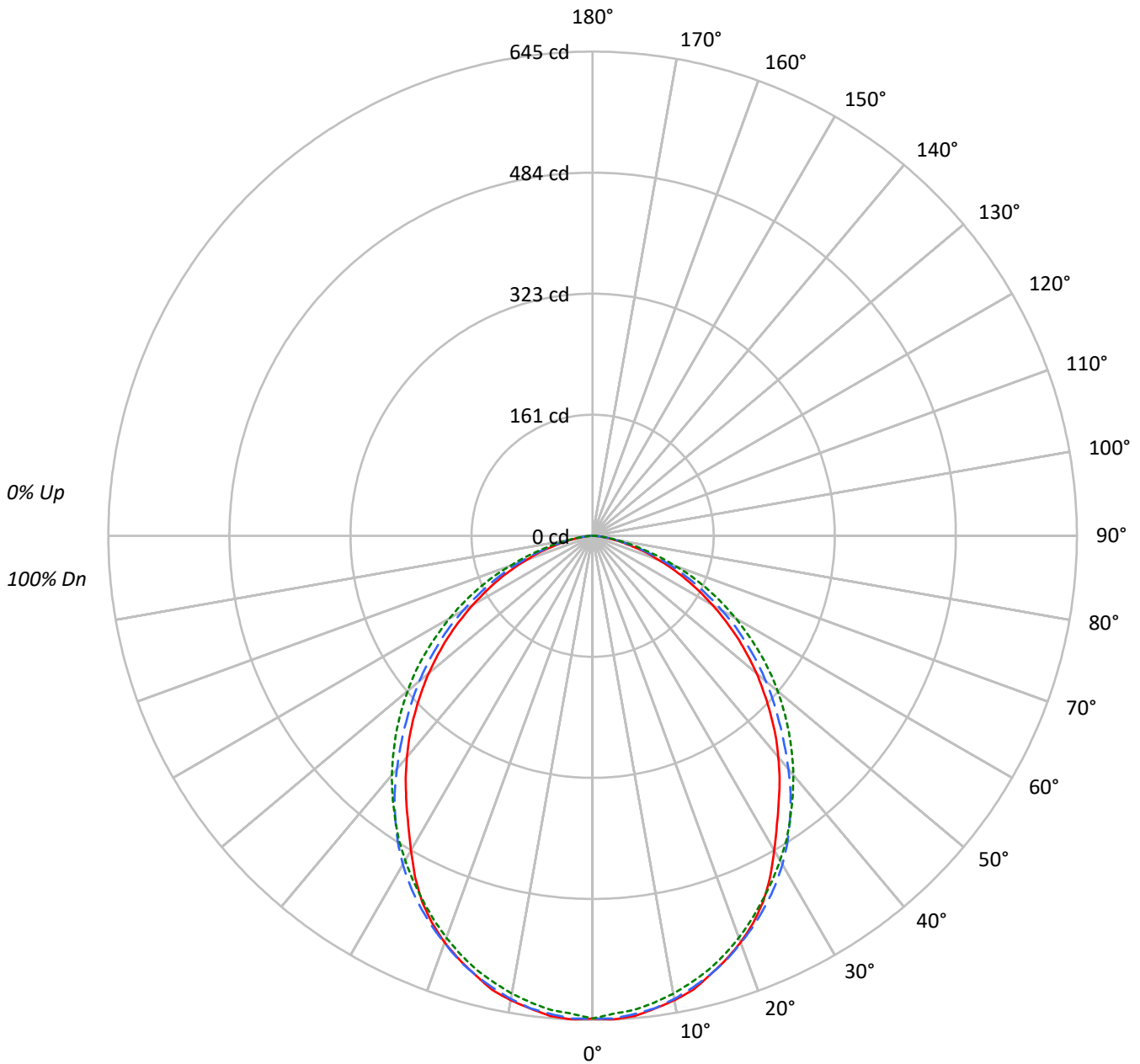
Lumens per Lamp: N/A
Luminaire Lumens: 1487.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3461	3461	3461
5°	3470	3455	3426
10°	3434	3424	3385
15°	3373	3373	3334
20°	3301	3305	3263
25°	3192	3232	3181
30°	3006	3141	3103
35°	2840	3011	3016
40°	2703	2848	2923
45°	2548	2676	2813
50°	2385	2522	2694
55°	2200	2346	2548
60°	1982	2141	2369
65°	1750	1904	2155
70°	1457	1621	1832
75°	1146	1295	1433
80°	818	911	1010
85°	531	531	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	4.1
10°-20°	170.1	11.4
20°-30°	248.6	16.7
30°-40°	282.2	19.0
40°-50°	272.4	18.3
50°-60°	224.7	15.1
60°-70°	149.6	10.1
70°-80°	67.0	4.5
80°-90°	12.0	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°	479.2	32.2
0°-40°	761.4	51.2
0°-60°	1258.4	84.6
0°-90°	1487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	642	642	640	636	634	61
15°	605	607	605	603	598	171
25°	538	542	544	540	536	246
35°	432	438	458	461	459	271
45°	335	340	352	368	370	258
55°	234	238	250	264	272	209
65°	137	141	150	160	169	136
75°	55	58	62	65	69	60
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.1	643.1	643.1	643.1	643.1
2.5°	644.8	645.1	643.6	639.6	637.2
5°	642.3	642.1	639.6	636.2	634.2
7.5°	635.2	635.7	634.9	630.0	627.3
10°	628.3	628.5	626.5	622.6	619.4
12.5°	619.4	619.1	616.4	614.4	609.2
15°	605.3	606.8	605.3	602.6	598.4
17.5°	591.7	591.7	592.7	588.0	584.8
20°	576.4	577.1	577.1	573.4	569.7
22.5°	558.6	560.8	561.6	557.6	553.2
25°	537.6	541.8	544.3	540.3	535.6
27.5°	512.1	518.6	526.0	523.0	517.8
30°	483.7	493.1	505.5	503.0	499.3
32.5°	456.8	466.2	483.2	482.3	480.3
35°	432.3	438.3	458.3	460.8	459.0
37.5°	409.1	414.6	433.3	439.0	437.5
40°	384.7	390.6	405.4	415.5	416.0
42.5°	360.5	366.1	378.2	392.8	392.8
45°	334.8	340.4	351.6	367.6	369.6
47.5°	309.6	315.5	326.4	342.4	345.6
50°	284.9	290.3	301.2	316.7	321.7
52.5°	259.2	265.1	275.7	290.0	297.2
55°	234.5	238.4	250.0	263.9	271.5
57.5°	208.8	212.5	225.6	237.4	245.3
60°	184.1	188.8	198.9	211.0	220.1
62.5°	160.3	165.3	173.9	184.6	194.9
65°	137.4	141.1	149.5	160.1	169.2
67.5°	115.1	118.3	126.7	134.2	143.8
70°	92.6	96.8	103.0	110.2	116.4
72.5°	74.6	76.3	81.5	86.7	93.1
75°	55.1	58.1	62.3	65.2	68.9
77.5°	39.5	41.3	43.7	46.2	49.7
80°	26.4	27.2	29.4	29.9	32.6
82.5°	16.1	16.6	17.0	17.3	18.3
85°	8.6	8.6	8.6	8.2	8.2
87.5°	4.9	4.9	4.2	3.5	2.5
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)