

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: P554067

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-82-85-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: P554067
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-50-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

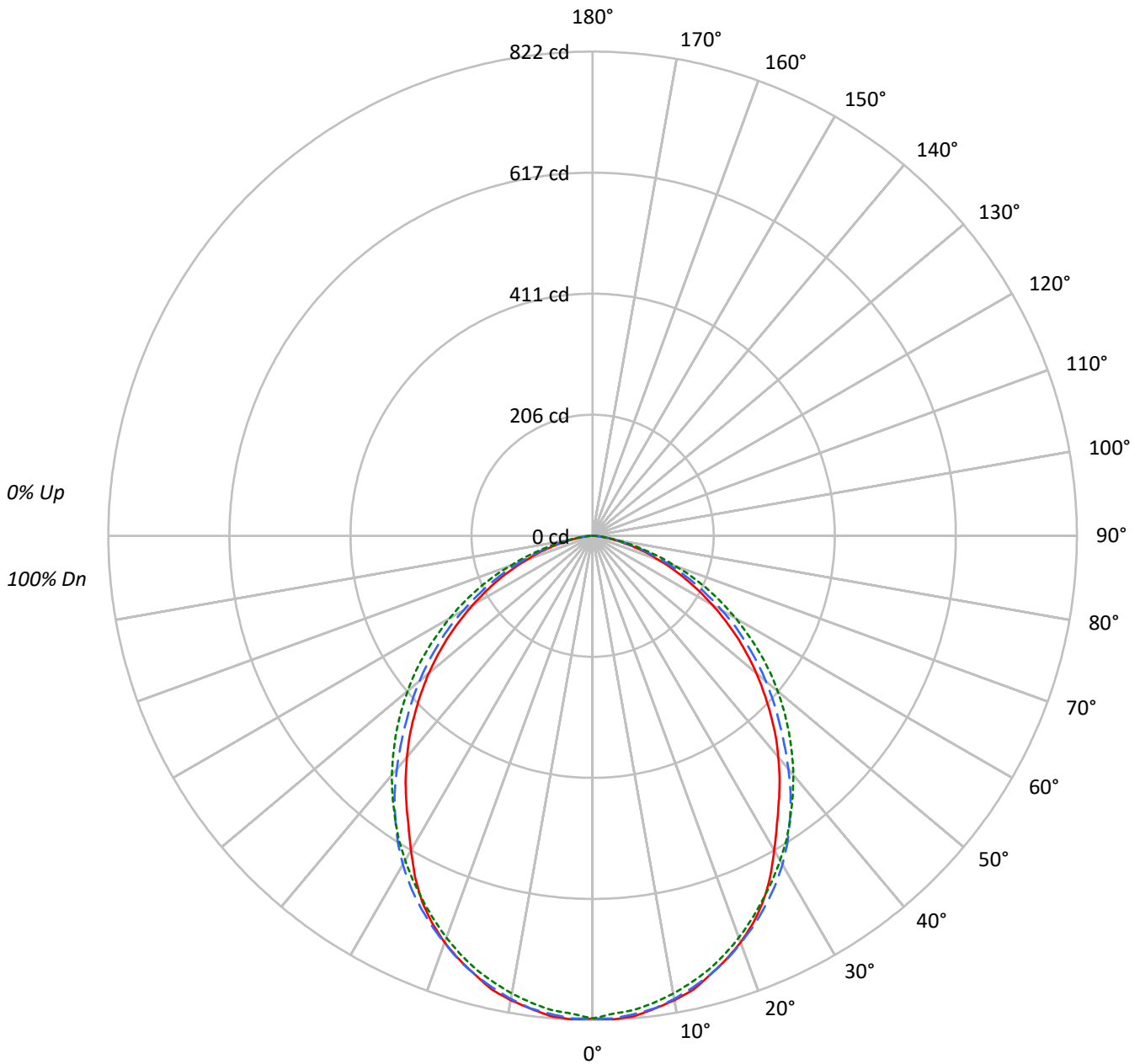
Lumens per Lamp: N/A
Luminaire Lumens: 1895.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	4411	4411	4411
5°	4422	4404	4366
10°	4375	4363	4314
15°	4298	4298	4249
20°	4207	4212	4158
25°	4068	4119	4054
30°	3831	4003	3954
35°	3620	3837	3844
40°	3444	3630	3725
45°	3247	3410	3585
50°	3039	3213	3432
55°	2804	2989	3247
60°	2525	2728	3019
65°	2230	2426	2747
70°	1858	2066	2334
75°	1460	1649	1826
80°	1044	1162	1289
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.1
10°-20°	216.8	11.4
20°-30°	316.8	16.7
30°-40°	359.6	19.0
40°-50°	347.1	18.3
50°-60°	286.3	15.1
60°-70°	190.7	10.1
70°-80°	85.3	4.5
80°-90°	15.3	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°	610.7	32.2
0°-40°	970.3	51.2
0°-60°	1603.7	84.6
0°-90°	1895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	819	818	815	811	808	77
15°	771	773	771	768	763	217
25°	685	690	694	689	683	314
35°	551	558	584	587	585	345
45°	427	434	448	468	471	329
55°	299	304	319	336	346	267
65°	175	180	190	204	216	174
75°	70	74	79	83	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.5	819.5	819.5	819.5	819.5
2.5°	821.7	822.1	820.2	815.1	812.0
5°	818.6	818.3	815.1	810.7	808.2
7.5°	809.5	810.1	809.1	802.9	799.4
10°	800.6	801.0	798.4	793.4	789.3
12.5°	789.3	789.0	785.5	783.0	776.4
15°	771.4	773.3	771.4	767.9	762.6
17.5°	754.1	754.1	755.3	749.3	745.2
20°	734.5	735.5	735.5	730.8	726.0
22.5°	711.9	714.7	715.6	710.6	704.9
25°	685.1	690.5	693.6	688.6	682.6
27.5°	652.7	660.9	670.3	666.5	659.9
30°	616.5	628.4	644.2	641.0	636.3
32.5°	582.1	594.1	615.8	614.6	612.1
35°	551.0	558.5	584.0	587.2	585.0
37.5°	521.4	528.3	552.2	559.5	557.6
40°	490.2	497.8	516.7	529.6	530.2
42.5°	459.4	466.6	482.0	500.6	500.6
45°	426.6	433.9	448.0	468.5	471.0
47.5°	394.5	402.1	415.9	436.4	440.5
50°	363.0	369.9	383.8	403.6	409.9
52.5°	330.3	337.8	351.4	369.6	378.8
55°	298.8	303.8	318.6	336.3	346.0
57.5°	266.0	270.8	287.5	302.6	312.6
60°	234.6	240.5	253.4	268.9	280.5
62.5°	204.3	210.6	221.7	235.2	248.4
65°	175.1	179.8	190.5	204.0	215.7
67.5°	146.7	150.8	161.5	171.0	183.2
70°	118.1	123.4	131.3	140.4	148.3
72.5°	95.1	97.3	103.9	110.5	118.7
75°	70.2	74.0	79.3	83.1	87.8
77.5°	50.4	52.6	55.7	58.9	63.3
80°	33.7	34.6	37.5	38.1	41.6
82.5°	20.5	21.1	21.7	22.0	23.3
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.4	4.4	3.1
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)