

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: P555077

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-81-86-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: P555077
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-LD4-2LO-50-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

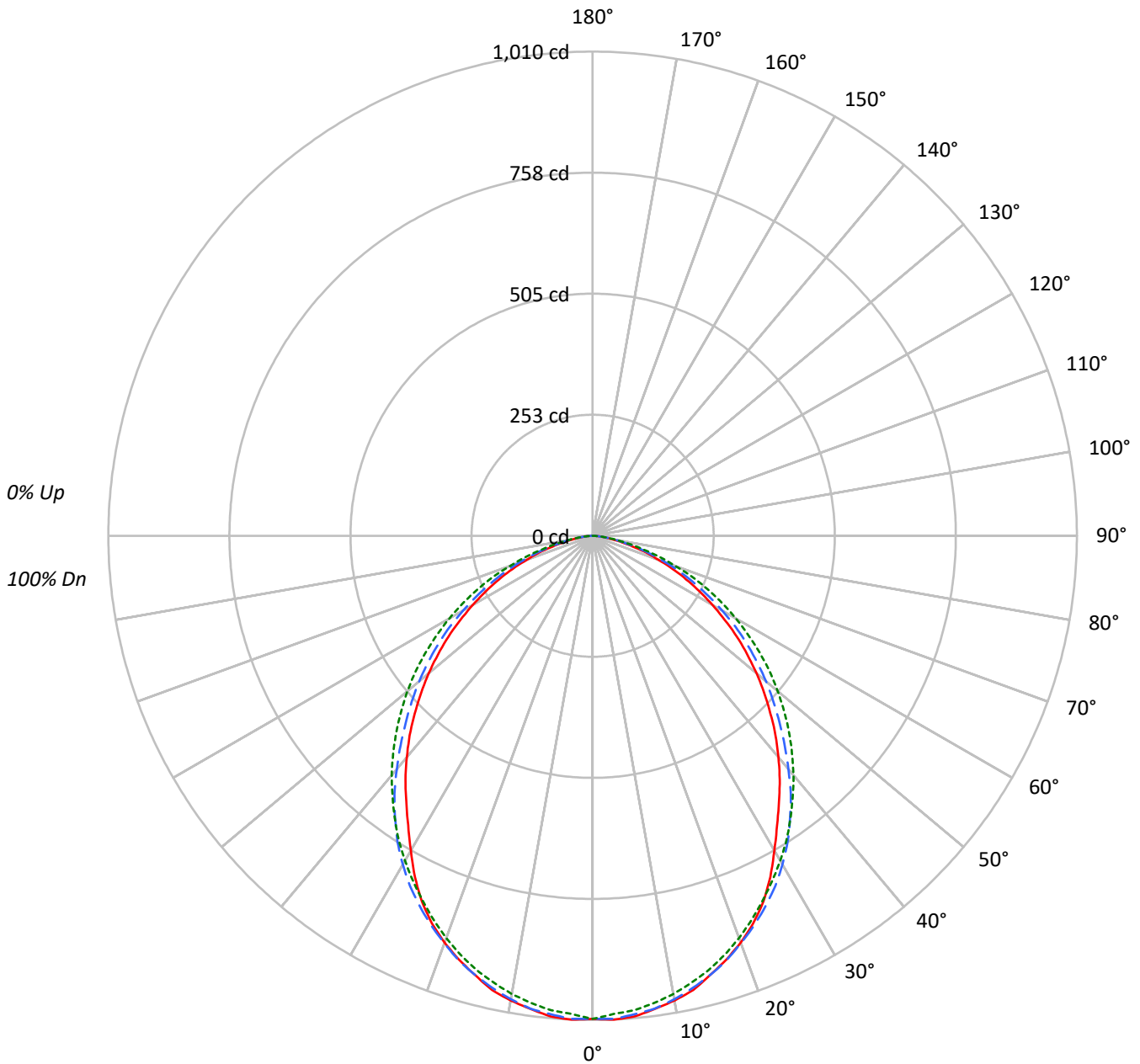
Lumens per Lamp: N/A
Luminaire Lumens: 2330.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5423	5423	5423
5°	5438	5414	5368
10°	5380	5365	5304
15°	5284	5284	5224
20°	5172	5179	5113
25°	5002	5064	4984
30°	4711	4922	4862
35°	4451	4718	4726
40°	4234	4463	4580
45°	3992	4193	4408
50°	3737	3951	4220
55°	3447	3676	3992
60°	3104	3354	3712
65°	2741	2982	3377
70°	2285	2540	2869
75°	1795	2030	2246
80°	1283	1429	1584
85°	834	834	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	4.1
10°-20°	266.5	11.4
20°-30°	389.5	16.7
30°-40°	442.1	19.0
40°-50°	426.8	18.3
50°-60°	352.1	15.1
60°-70°	234.4	10.1
70°-80°	104.9	4.5
80°-90°	18.8	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°	750.9	32.2
0°-40°	1193.0	51.2
0°-60°	1971.9	84.6
0°-90°	2330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1006	1002	997	994	95
15°	948	951	948	944	938	267
25°	842	849	853	847	839	386
35°	678	687	718	722	719	424
45°	524	533	551	576	579	405
55°	367	374	392	413	425	328
65°	215	221	234	251	265	213
75°	86	91	98	102	108	94
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1010.4	1010.8	1008.4	1002.2	998.4
5°	1006.5	1006.1	1002.2	996.8	993.7
7.5°	995.3	996.1	994.9	987.1	982.9
10°	984.4	984.8	981.7	975.5	970.5
12.5°	970.5	970.1	965.9	962.8	954.6
15°	948.4	950.8	948.4	944.2	937.6
17.5°	927.1	927.1	928.7	921.3	916.3
20°	903.1	904.3	904.3	898.5	892.7
22.5°	875.3	878.8	879.9	873.7	866.8
25°	842.4	848.9	852.8	846.6	839.3
27.5°	802.5	812.6	824.2	819.5	811.4
30°	758.0	772.7	792.0	788.2	782.4
32.5°	715.8	730.5	757.2	755.7	752.6
35°	677.5	686.7	718.1	722.0	719.3
37.5°	641.1	649.6	679.0	687.9	685.6
40°	602.7	612.0	635.3	651.1	651.9
42.5°	564.8	573.7	592.7	615.5	615.5
45°	524.5	533.4	550.9	576.0	579.1
47.5°	485.1	494.3	511.4	536.5	541.6
50°	446.3	454.9	471.9	496.3	504.0
52.5°	406.1	415.4	432.0	454.5	465.7
55°	367.4	373.6	391.8	413.4	425.4
57.5°	327.1	332.9	353.4	372.0	384.4
60°	288.4	295.8	311.6	330.6	344.9
62.5°	251.2	259.0	272.5	289.2	305.4
65°	215.2	221.0	234.2	250.9	265.2
67.5°	180.4	185.4	198.6	210.2	225.3
70°	145.2	151.7	161.4	172.7	182.3
72.5°	116.9	119.6	127.7	135.9	145.9
75°	86.3	91.0	97.6	102.2	108.0
77.5°	61.9	64.6	68.5	72.4	77.8
80°	41.4	42.6	46.1	46.8	51.1
82.5°	25.2	25.9	26.7	27.1	28.6
85°	13.5	13.5	13.5	12.8	12.8
87.5°	7.7	7.7	6.6	5.4	3.9
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)