

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: P555864

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-88-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: P555864
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-LD4-3LO-50-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

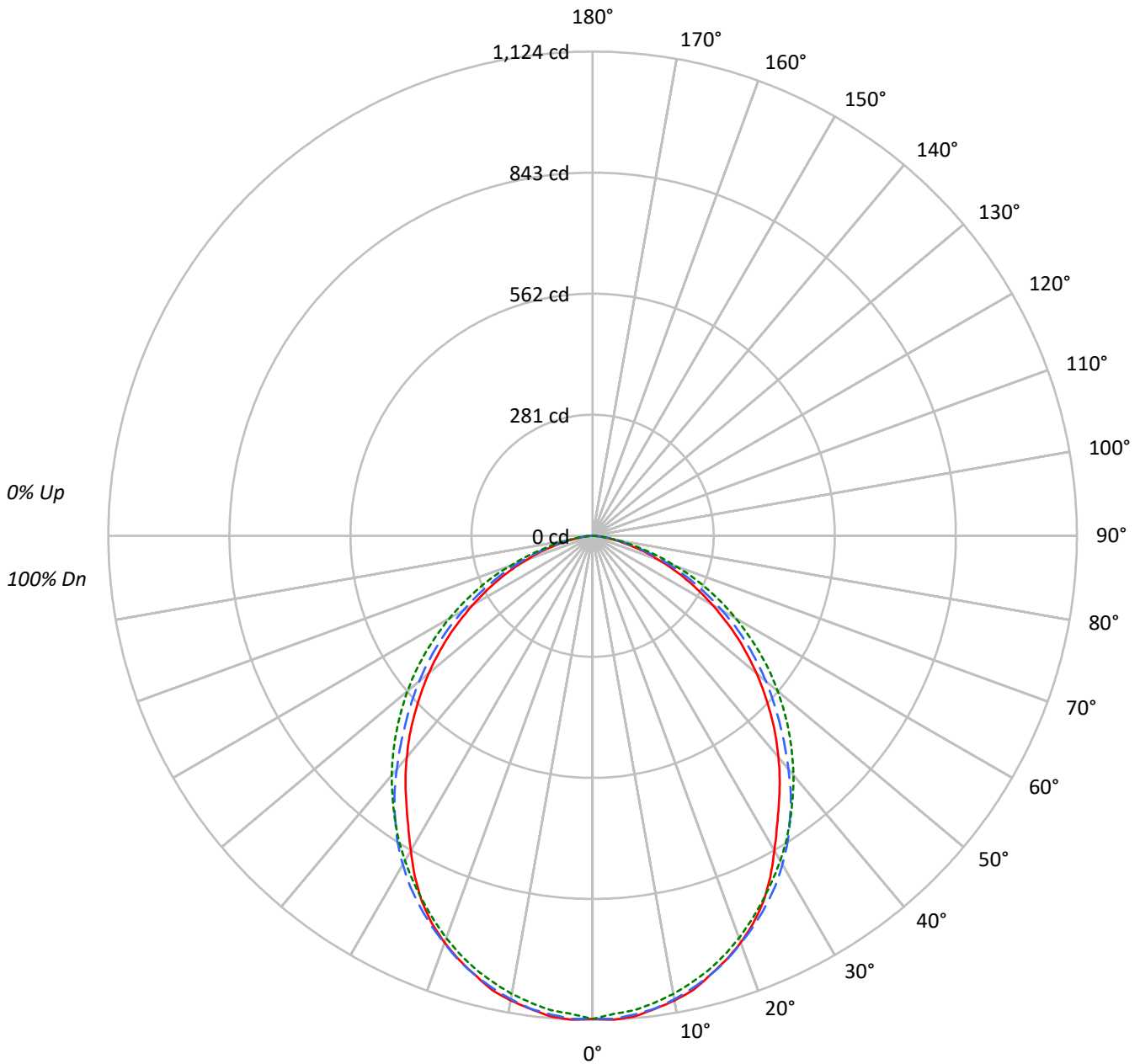
Lumens per Lamp: N/A
Luminaire Lumens: 2593.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6035	6035	6035
5°	6051	6026	5975
10°	5987	5970	5902
15°	5881	5881	5814
20°	5757	5764	5690
25°	5567	5636	5546
30°	5242	5478	5411
35°	4953	5251	5259
40°	4713	4967	5097
45°	4443	4666	4905
50°	4159	4397	4696
55°	3836	4091	4443
60°	3455	3733	4132
65°	3050	3319	3758
70°	2543	2826	3193
75°	1998	2258	2499
80°	1429	1590	1764
85°	932	932	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	4.1
10°-20°	296.6	11.4
20°-30°	433.4	16.7
30°-40°	492.0	19.0
40°-50°	475.0	18.3
50°-60°	391.8	15.1
60°-70°	260.9	10.1
70°-80°	116.8	4.5
80°-90°	20.9	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°	835.6	32.2
0°-40°	1327.7	51.2
0°-60°	2194.4	84.6
0°-90°	2593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1120	1120	1115	1109	1106	106
15°	1056	1058	1056	1051	1043	298
25°	937	945	949	942	934	429
35°	754	764	799	804	800	472
45°	584	594	613	641	644	450
55°	409	416	436	460	474	365
65°	240	246	261	279	295	238
75°	96	101	109	114	120	105
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1124.4	1124.9	1122.3	1115.4	1111.1
5°	1120.1	1119.7	1115.4	1109.3	1105.9
7.5°	1107.6	1108.5	1107.2	1098.6	1093.8
10°	1095.6	1096.0	1092.5	1085.6	1080.0
12.5°	1080.0	1079.6	1074.9	1071.4	1062.4
15°	1055.5	1058.1	1055.5	1050.8	1043.4
17.5°	1031.8	1031.8	1033.5	1025.3	1019.7
20°	1005.1	1006.4	1006.4	999.9	993.5
22.5°	974.1	977.9	979.2	972.3	964.6
25°	937.4	944.8	949.1	942.2	934.0
27.5°	893.1	904.3	917.2	912.0	903.0
30°	843.5	859.9	881.4	877.1	870.7
32.5°	796.6	812.9	842.7	840.9	837.5
35°	753.9	764.3	799.2	803.5	800.5
37.5°	713.4	722.9	755.6	765.6	763.0
40°	670.8	681.1	707.0	724.6	725.5
42.5°	628.6	638.5	659.6	685.0	685.0
45°	583.8	593.7	613.0	641.0	644.5
47.5°	539.8	550.1	569.1	597.1	602.7
50°	496.7	506.2	525.2	552.3	560.9
52.5°	451.9	462.3	480.8	505.8	518.3
55°	408.8	415.7	436.0	460.1	473.5
57.5°	364.0	370.5	393.3	414.0	427.8
60°	321.0	329.1	346.8	367.9	383.9
62.5°	279.6	288.2	303.3	321.8	339.9
65°	239.5	246.0	260.6	279.2	295.1
67.5°	200.8	206.4	221.0	233.9	250.7
70°	161.6	168.9	179.6	192.1	202.9
72.5°	130.1	133.1	142.2	151.2	162.4
75°	96.1	101.2	108.6	113.7	120.2
77.5°	68.9	71.9	76.3	80.6	86.6
80°	46.1	47.4	51.3	52.1	56.9
82.5°	28.0	28.9	29.7	30.2	31.9
85°	15.1	15.1	15.1	14.2	14.2
87.5°	8.6	8.6	7.3	6.0	4.3
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)