

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: P555160

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-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: P555160
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-LD4-2STD-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

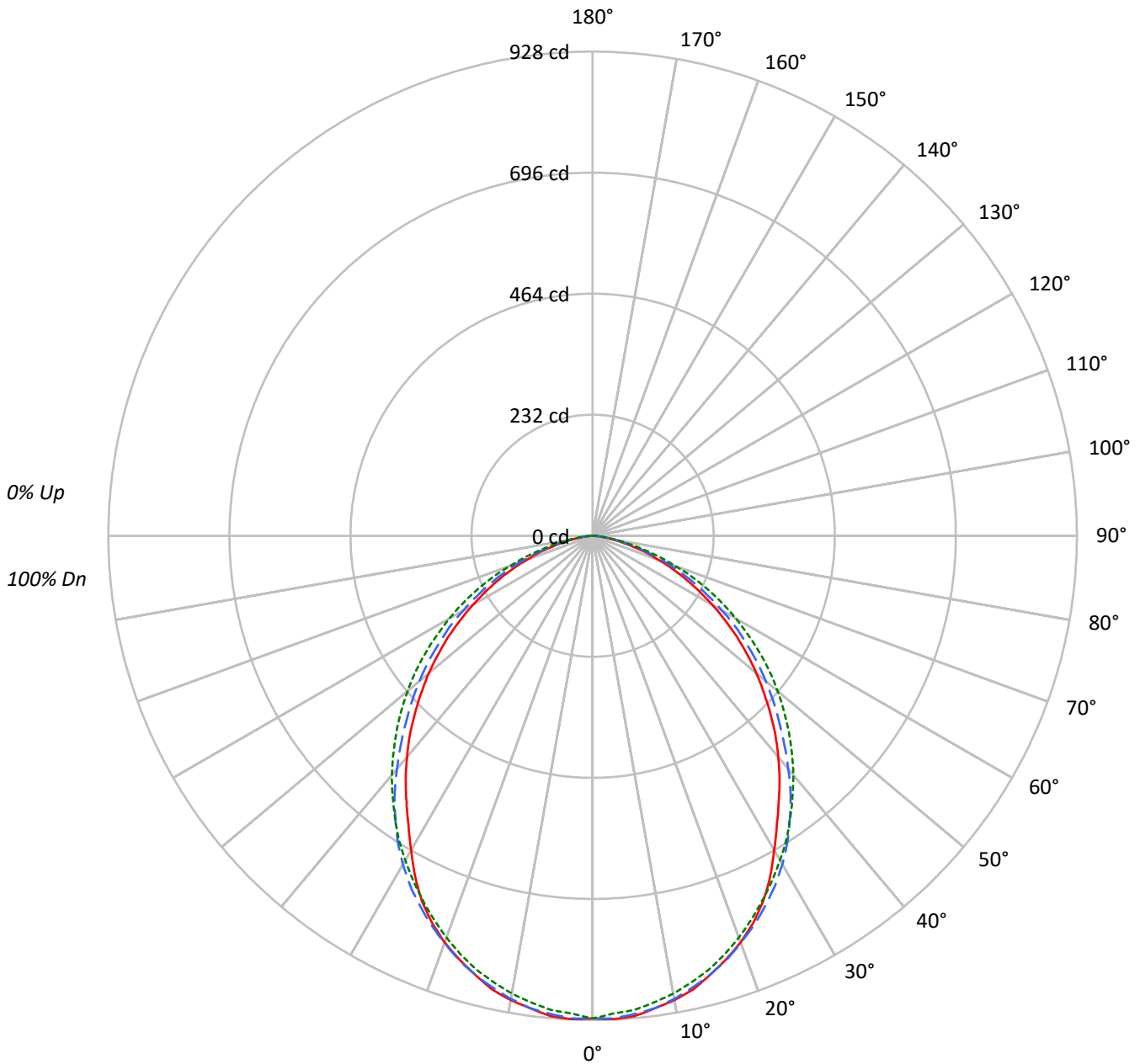
Lumens per Lamp: N/A
Luminaire Lumens: 2139.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	4979	4979	4979
5°	4992	4971	4929
10°	4939	4926	4869
15°	4851	4851	4796
20°	4749	4755	4694
25°	4592	4649	4575
30°	4324	4519	4463
35°	4086	4331	4338
40°	3887	4097	4205
45°	3665	3849	4047
50°	3431	3627	3874
55°	3165	3374	3665
60°	2850	3080	3408
65°	2516	2738	3100
70°	2098	2332	2634
75°	1649	1863	2063
80°	1178	1311	1454
85°	766	766	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	4.1
10°-20°	244.7	11.4
20°-30°	357.6	16.7
30°-40°	405.9	19.0
40°-50°	391.8	18.3
50°-60°	323.2	15.1
60°-70°	215.2	10.1
70°-80°	96.3	4.5
80°-90°	17.2	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°	689.3	32.2
0°-40°	1095.2	51.2
0°-60°	1810.2	84.6
0°-90°	2139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	924	924	920	915	912	87
15°	871	873	871	867	861	245
25°	773	779	783	777	770	354
35°	622	630	659	663	660	390
45°	482	490	506	529	532	372
55°	337	343	360	380	391	301
65°	198	203	215	230	243	196
75°	79	84	90	94	99	87
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.1	925.1	925.1	925.1	925.1
2.5°	927.5	927.9	925.8	920.1	916.5
5°	924.0	923.6	920.1	915.1	912.3
7.5°	913.7	914.4	913.3	906.2	902.3
10°	903.7	904.1	901.3	895.6	890.9
12.5°	890.9	890.6	886.7	883.8	876.4
15°	870.7	872.8	870.7	866.8	860.7
17.5°	851.1	851.1	852.6	845.8	841.2
20°	829.1	830.2	830.2	824.8	819.5
22.5°	803.5	806.7	807.8	802.1	795.7
25°	773.3	779.4	782.9	777.2	770.5
27.5°	736.7	745.9	756.6	752.3	744.9
30°	695.8	709.3	727.1	723.6	718.2
32.5°	657.1	670.6	695.1	693.7	690.9
35°	621.9	630.4	659.2	662.8	660.3
37.5°	588.5	596.3	623.3	631.5	629.4
40°	553.3	561.9	583.2	597.8	598.5
42.5°	518.5	526.7	544.1	565.1	565.1
45°	481.5	489.7	505.7	528.8	531.7
47.5°	445.3	453.8	469.5	492.6	497.2
50°	409.8	417.6	433.2	455.6	462.7
52.5°	372.8	381.3	396.6	417.2	427.5
55°	337.3	342.9	359.6	379.5	390.6
57.5°	300.3	305.6	324.5	341.5	352.9
60°	264.8	271.5	286.1	303.5	316.6
62.5°	230.6	237.8	250.2	265.5	280.4
65°	197.6	202.9	215.0	230.3	243.4
67.5°	165.6	170.2	182.3	193.0	206.8
70°	133.3	139.3	148.2	158.5	167.4
72.5°	107.3	109.8	117.3	124.7	134.0
75°	79.3	83.5	89.6	93.8	99.2
77.5°	56.9	59.3	62.9	66.5	71.4
80°	38.0	39.1	42.3	43.0	46.9
82.5°	23.1	23.8	24.5	24.9	26.3
85°	12.4	12.4	12.4	11.7	11.7
87.5°	7.1	7.1	6.0	5.0	3.6
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)