

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: P555688

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-88-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: P555688
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-30-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

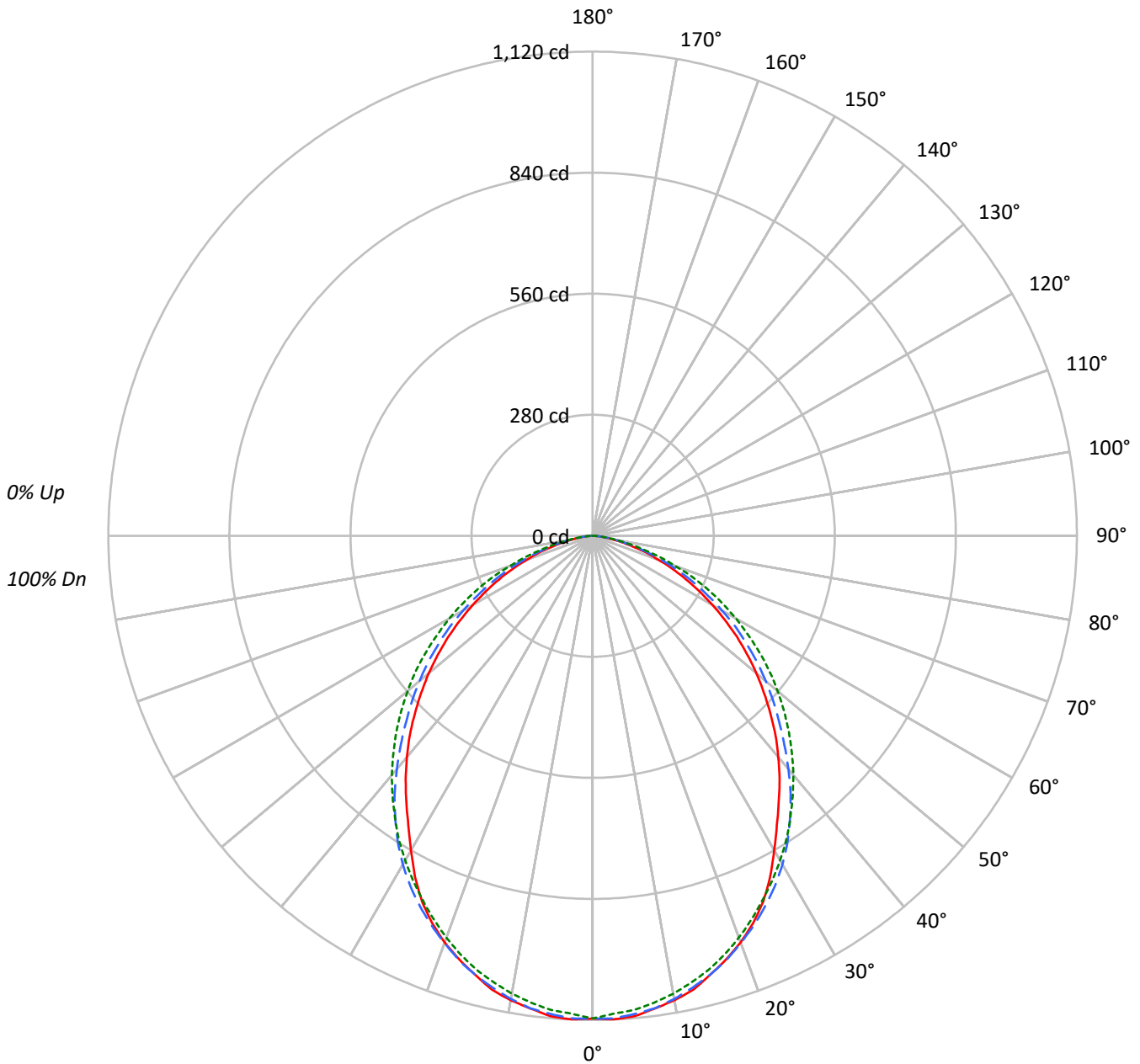
Lumens per Lamp: N/A
Luminaire Lumens: 2582.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6009	6009	6009
5°	6026	6000	5949
10°	5962	5945	5878
15°	5856	5856	5789
20°	5732	5739	5666
25°	5543	5612	5523
30°	5220	5455	5388
35°	4932	5229	5237
40°	4692	4946	5075
45°	4424	4646	4885
50°	4141	4378	4676
55°	3820	4073	4424
60°	3440	3717	4114
65°	3037	3305	3743
70°	2532	2815	3180
75°	1990	2248	2489
80°	1423	1581	1754
85°	926	926	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	4.1
10°-20°	295.4	11.4
20°-30°	431.6	16.7
30°-40°	489.9	19.0
40°-50°	473.0	18.3
50°-60°	390.2	15.1
60°-70°	259.8	10.1
70°-80°	116.3	4.5
80°-90°	20.8	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°	832.1	32.2
0°-40°	1322.0	51.2
0°-60°	2185.1	84.6
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1115	1115	1111	1105	1101	106
15°	1051	1054	1051	1046	1039	296
25°	934	941	945	938	930	427
35°	751	761	796	800	797	470
45°	581	591	610	638	642	448
55°	407	414	434	458	472	363
65°	238	245	260	278	294	236
75°	96	101	108	113	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°	1116.6	<i>1116.6</i>	1116.6	1116.6	1116.6
2.5°	<i>1119.7</i>	<i>1120.1</i>	<i>1117.5</i>	<i>1110.6</i>	<i>1106.4</i>
5°	1115.4	<i>1114.9</i>	1110.6	1104.6	1101.2
7.5°	1102.9	<i>1103.8</i>	1102.5	1093.9	1089.2
10°	1090.9	<i>1091.3</i>	1087.9	1081.0	1075.5
12.5°	1075.5	<i>1075.0</i>	1070.3	1066.9	1057.9
15°	1051.0	<i>1053.6</i>	1051.0	1046.3	1039.0
17.5°	1027.4	<i>1027.4</i>	1029.1	1021.0	1015.4
20°	1000.8	<i>1002.1</i>	1002.1	995.7	989.2
22.5°	969.9	<i>973.8</i>	975.1	968.2	960.5
25°	933.5	<i>940.8</i>	945.1	938.2	930.0
27.5°	889.3	<i>900.4</i>	913.3	908.2	899.2
30°	840.0	<i>856.3</i>	877.7	873.4	867.0
32.5°	793.2	<i>809.5</i>	839.1	837.4	833.9
35°	750.7	<i>761.0</i>	795.8	800.1	797.1
37.5°	710.4	<i>719.8</i>	752.4	762.3	759.7
40°	667.9	<i>678.2</i>	704.0	721.6	722.4
42.5°	625.9	<i>635.8</i>	656.8	682.1	682.1
45°	581.3	<i>591.1</i>	610.4	638.3	641.8
47.5°	537.5	<i>547.8</i>	566.7	594.6	600.2
50°	494.6	<i>504.1</i>	522.9	550.0	558.5
52.5°	450.0	<i>460.3</i>	478.7	503.6	516.1
55°	407.1	<i>414.0</i>	434.1	458.2	471.5
57.5°	362.5	<i>368.9</i>	391.7	412.3	426.0
60°	319.6	<i>327.7</i>	345.3	366.4	382.2
62.5°	278.4	<i>287.0</i>	302.0	320.5	338.5
65°	238.5	<i>245.0</i>	259.5	278.0	293.9
67.5°	199.9	<i>205.5</i>	220.1	232.9	249.7
70°	160.9	<i>168.2</i>	178.9	191.3	202.1
72.5°	129.6	<i>132.6</i>	141.6	150.6	161.7
75°	95.7	<i>100.8</i>	108.1	113.3	119.7
77.5°	68.6	<i>71.6</i>	75.9	80.2	86.2
80°	45.9	<i>47.2</i>	51.0	51.9	56.6
82.5°	27.9	<i>28.7</i>	29.6	30.0	31.7
85°	15.0	<i>15.0</i>	15.0	14.2	14.2
87.5°	8.6	<i>8.6</i>	7.3	6.0	4.3
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)