

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: P555212

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-96-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: P555212
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-35-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

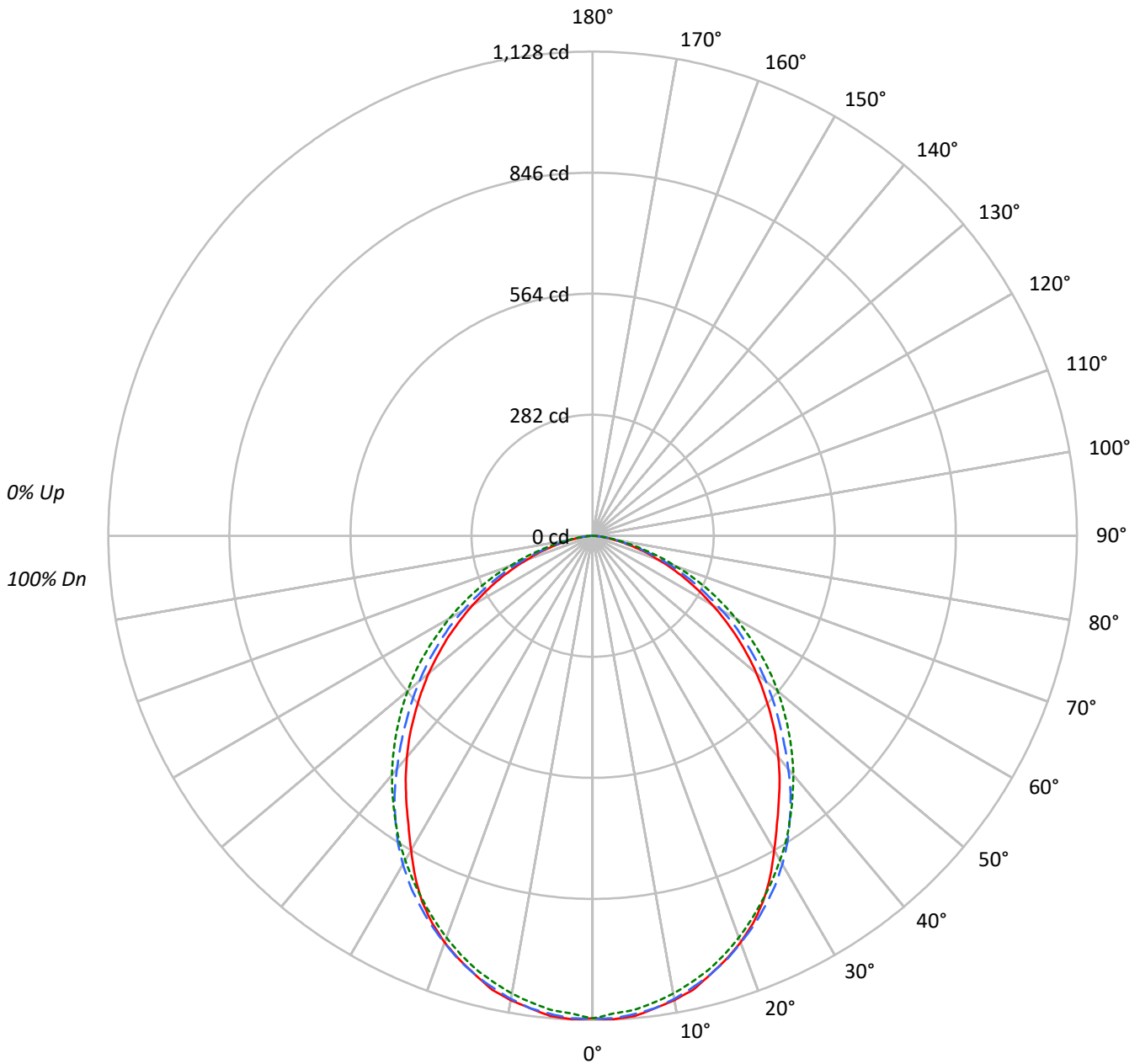
Lumens per Lamp: N/A
Luminaire Lumens: 2600.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555212

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-81-96-EDD-90

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°	6051	6051	6051
5°	6068	6042	5991
10°	6003	5987	5919
15°	5897	5897	5829
20°	5772	5779	5705
25°	5582	5651	5561
30°	5256	5492	5425
35°	4967	5265	5273
40°	4725	4980	5110
45°	4455	4679	4918
50°	4171	4409	4709
55°	3846	4102	4454
60°	3464	3743	4143
65°	3059	3328	3768
70°	2549	2834	3202
75°	2002	2264	2506
80°	1432	1593	1767
85°	932	932	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	4.1
10°-20°	297.4	11.4
20°-30°	434.6	16.7
30°-40°	493.3	19.0
40°-50°	476.2	18.3
50°-60°	392.9	15.1
60°-70°	261.6	10.1
70°-80°	117.1	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°	837.9	32.2
0°-40°	1331.2	51.2
0°-60°	2200.4	84.6
0°-90°	2600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1123	1123	1118	1112	1109	106
15°	1058	1061	1058	1054	1046	298
25°	940	947	952	945	936	430
35°	756	766	801	806	803	474
45°	585	595	615	643	646	452
55°	410	417	437	461	475	366
65°	240	247	261	280	296	238
75°	96	102	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°	1124.4	1124.4	1124.4	1124.4	1124.4
2.5°	1127.5	1127.9	1125.3	1118.4	1114.1
5°	1123.1	1122.7	1118.4	1112.3	1108.9
7.5°	1110.6	1111.5	1110.2	1101.5	1096.8
10°	1098.5	1098.9	1095.5	1088.6	1083.0
12.5°	1083.0	1082.5	1077.8	1074.3	1065.3
15°	1058.3	1060.9	1058.3	1053.6	1046.2
17.5°	1034.6	1034.6	1036.3	1028.1	1022.5
20°	1007.8	1009.1	1009.1	1002.6	996.1
22.5°	976.7	980.6	981.9	975.0	967.2
25°	940.0	947.3	951.6	944.7	936.5
27.5°	895.5	906.7	919.7	914.5	905.4
30°	845.8	862.2	883.8	879.5	873.0
32.5°	798.7	815.1	844.9	843.2	839.8
35°	756.0	766.3	801.3	805.6	802.6
37.5°	715.4	724.9	757.7	767.6	765.0
40°	672.6	683.0	708.9	726.6	727.4
42.5°	630.3	640.2	661.4	686.8	686.8
45°	585.3	595.3	614.7	642.8	646.2
47.5°	541.3	551.6	570.6	598.7	604.3
50°	498.1	507.6	526.6	553.8	562.4
52.5°	453.1	463.5	482.1	507.1	519.7
55°	409.9	416.9	437.2	461.4	474.7
57.5°	365.0	371.5	394.4	415.1	429.0
60°	321.8	330.0	347.7	368.9	384.9
62.5°	280.4	289.0	304.1	322.7	340.8
65°	240.2	246.7	261.3	279.9	295.9
67.5°	201.3	206.9	221.6	234.6	251.4
70°	162.0	169.3	180.1	192.7	203.5
72.5°	130.5	133.5	142.6	151.6	162.9
75°	96.3	101.5	108.9	114.0	120.5
77.5°	69.1	72.1	76.5	80.8	86.8
80°	46.2	47.5	51.4	52.3	57.0
82.5°	28.1	28.9	29.8	30.2	32.0
85°	15.1	15.1	15.1	14.3	14.3
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)