

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: P555244

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-96-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: P55244
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

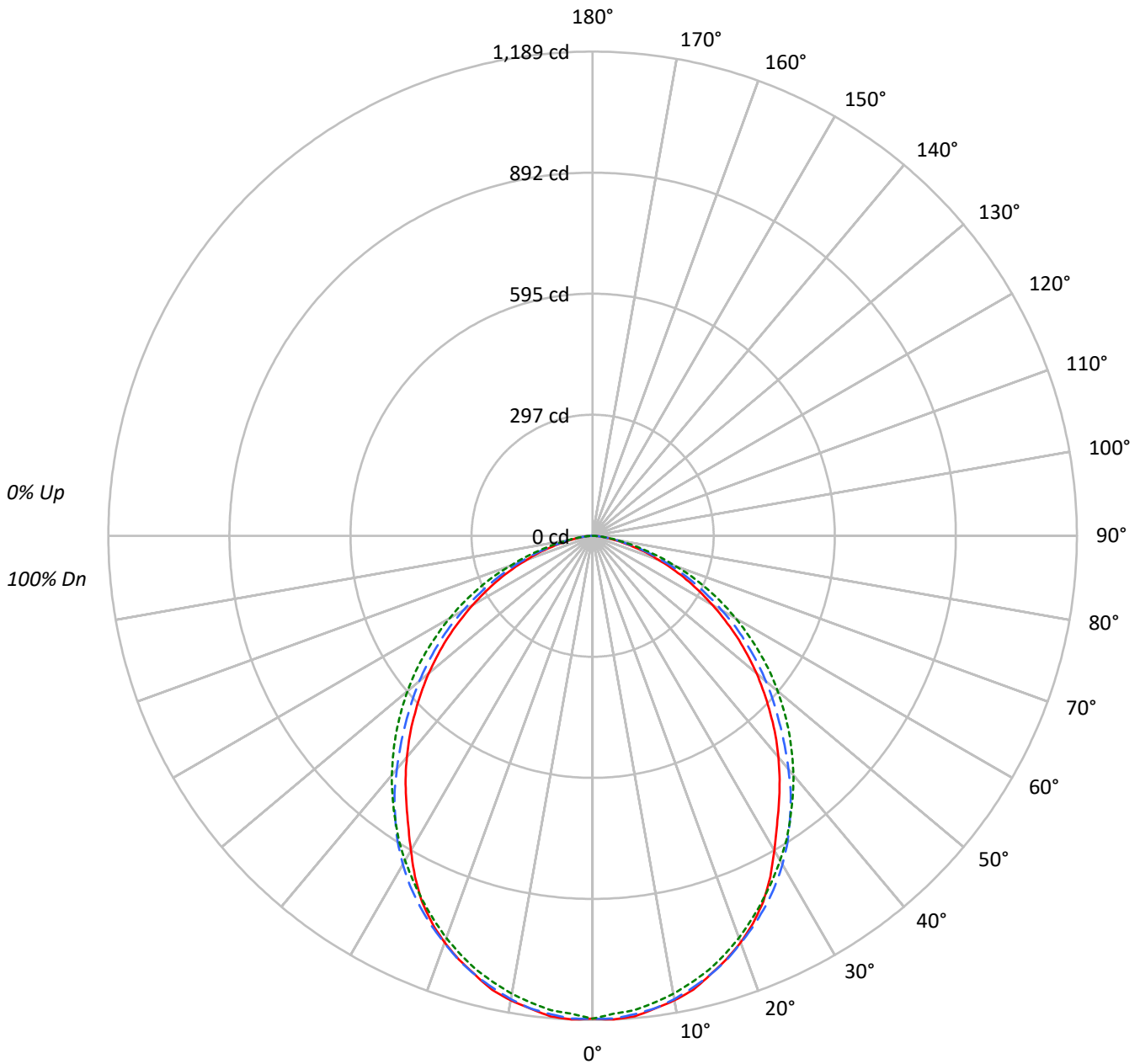
Lumens per Lamp: N/A
Luminaire Lumens: 2742.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6382	6382	6382
5°	6399	6372	6318
10°	6331	6314	6242
15°	6219	6219	6148
20°	6087	6095	6017
25°	5887	5960	5865
30°	5543	5793	5722
35°	5238	5552	5561
40°	4983	5252	5390
45°	4698	4934	5187
50°	4398	4649	4966
55°	4056	4326	4698
60°	3653	3947	4369
65°	3226	3510	3975
70°	2688	2990	3377
75°	2113	2387	2643
80°	1509	1680	1863
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	4.1
10°-20°	313.7	11.4
20°-30°	458.4	16.7
30°-40°	520.3	19.0
40°-50°	502.3	18.3
50°-60°	414.3	15.1
60°-70°	275.9	10.1
70°-80°	123.5	4.5
80°-90°	22.1	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°	883.7	32.2
0°-40°	1403.9	51.2
0°-60°	2320.5	84.6
0°-90°	2742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1184	1184	1180	1173	1169	112
15°	1116	1119	1116	1111	1103	315
25°	991	999	1004	996	988	454
35°	797	808	845	850	846	500
45°	617	628	648	678	682	476
55°	432	440	461	486	501	386
65°	253	260	276	295	312	251
75°	102	107	115	120	127	111
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.8	<i>1185.8</i>	1185.8	1185.8	1185.8
2.5°	<i>1189.0</i>	<i>1189.5</i>	<i>1186.8</i>	<i>1179.5</i>	<i>1174.9</i>
5°	1184.5	<i>1184.0</i>	1179.5	1173.1	1169.4
7.5°	1171.3	<i>1172.2</i>	1170.8	1161.7	1156.7
10°	1158.5	<i>1159.0</i>	1155.3	1148.0	1142.1
12.5°	1142.1	<i>1141.7</i>	1136.6	1133.0	1123.4
15°	1116.1	<i>1118.9</i>	1116.1	1111.1	1103.4
17.5°	1091.1	<i>1091.1</i>	1092.9	1084.3	1078.3
20°	1062.8	<i>1064.2</i>	1064.2	1057.4	1050.5
22.5°	1030.0	<i>1034.1</i>	1035.5	1028.2	1020.0
25°	991.3	<i>999.1</i>	1003.6	996.3	987.7
27.5°	944.4	<i>956.2</i>	969.9	964.4	954.9
30°	892.0	<i>909.3</i>	932.1	927.5	920.7
32.5°	842.3	<i>859.7</i>	891.1	889.3	885.6
35°	797.2	<i>808.2</i>	845.1	849.6	846.4
37.5°	754.4	<i>764.4</i>	799.1	809.5	806.8
40°	709.3	<i>720.3</i>	747.6	766.3	767.2
42.5°	664.7	<i>675.2</i>	697.5	724.4	724.4
45°	617.3	<i>627.8</i>	648.3	677.9	681.5
47.5°	570.8	<i>581.8</i>	601.8	631.4	637.3
50°	525.3	<i>535.3</i>	555.3	584.0	593.1
52.5°	477.9	<i>488.8</i>	508.4	534.8	548.0
55°	432.3	<i>439.6</i>	461.0	486.5	500.7
57.5°	385.0	<i>391.8</i>	415.9	437.8	452.4
60°	339.4	<i>348.1</i>	366.7	389.1	405.9
62.5°	295.7	<i>304.8</i>	320.7	340.3	359.4
65°	253.3	<i>260.1</i>	275.6	295.2	312.1
67.5°	212.3	<i>218.2</i>	233.7	247.4	265.1
70°	170.8	<i>178.6</i>	190.0	203.2	214.6
72.5°	137.6	<i>140.8</i>	150.3	159.9	171.7
75°	101.6	<i>107.1</i>	114.8	120.3	127.1
77.5°	72.9	<i>76.1</i>	80.6	85.2	91.6
80°	48.7	<i>50.1</i>	54.2	55.1	60.1
82.5°	29.6	<i>30.5</i>	31.4	31.9	33.7
85°	15.9	<i>15.9</i>	15.9	15.0	15.0
87.5°	9.1	<i>9.1</i>	7.7	6.4	4.6
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)