

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: P555196

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-96-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: P555196
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

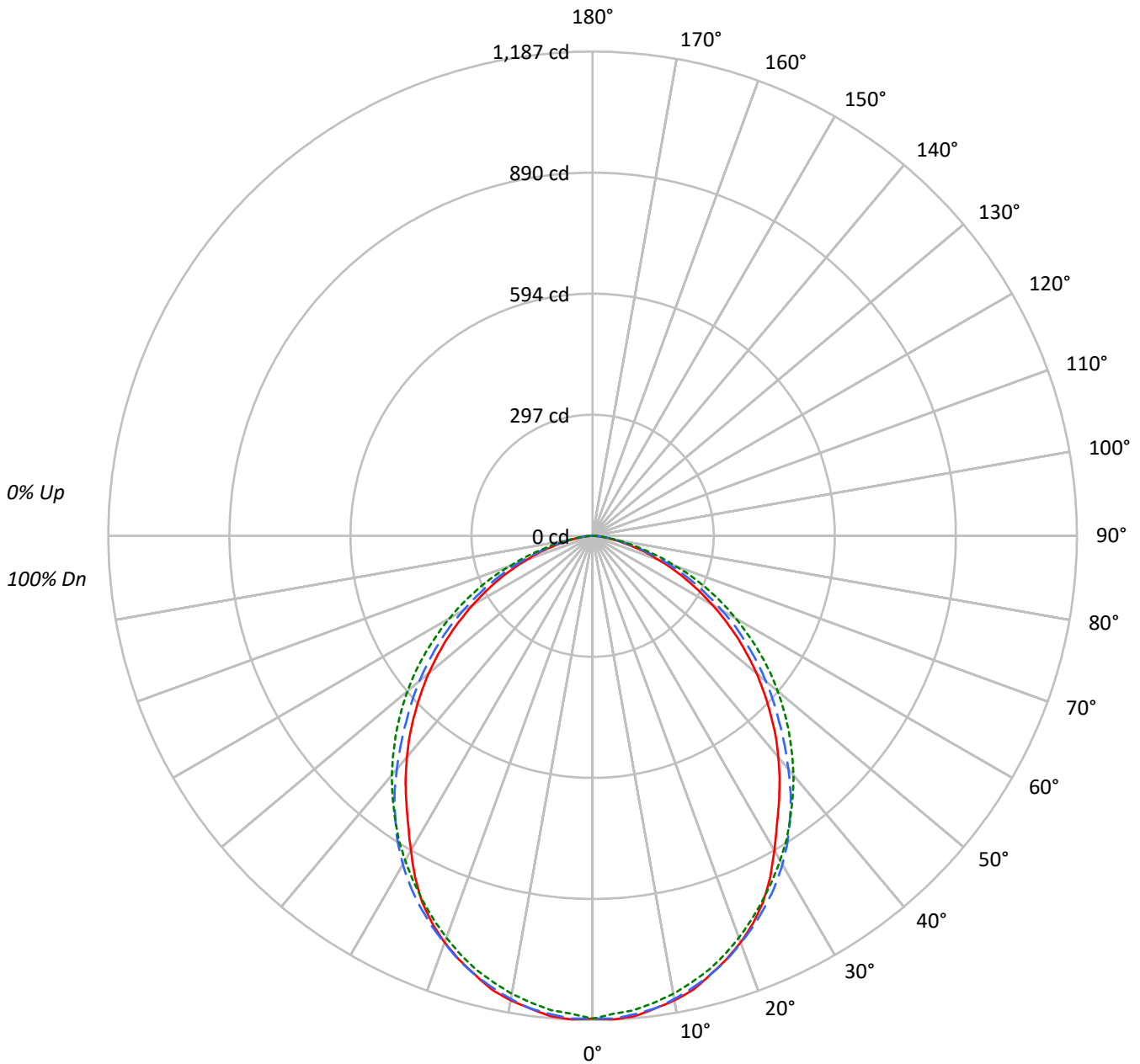
Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6371	6371	6371
5°	6387	6360	6306
10°	6320	6302	6230
15°	6208	6208	6137
20°	6076	6084	6006
25°	5876	5949	5855
30°	5533	5782	5711
35°	5229	5542	5551
40°	4974	5243	5380
45°	4690	4925	5178
50°	4390	4641	4958
55°	4049	4318	4690
60°	3647	3941	4362
65°	3219	3503	3967
70°	2683	2984	3371
75°	2109	2383	2639
80°	1509	1677	1860
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.1
10°-20°	313.1	11.4
20°-30°	457.5	16.7
30°-40°	519.3	19.0
40°-50°	501.3	18.3
50°-60°	413.6	15.1
60°-70°	275.4	10.1
70°-80°	123.2	4.5
80°-90°	22.0	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°	882.1	32.2
0°-40°	1401.4	51.2
0°-60°	2316.3	84.6
0°-90°	2737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1182	1182	1177	1171	1167	112
15°	1114	1117	1114	1109	1101	314
25°	990	997	1002	994	986	453
35°	796	807	844	848	845	499
45°	616	627	647	677	680	475
55°	432	439	460	486	500	385
65°	253	260	275	295	312	251
75°	101	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°	1183.7	1183.7	1183.7	1183.7	1183.7
2.5°	1186.9	1187.3	1184.6	1177.3	1172.8
5°	1182.3	1181.9	1177.3	1170.9	1167.3
7.5°	1169.1	1170.0	1168.7	1159.6	1154.6
10°	1156.4	1156.9	1153.2	1145.9	1140.0
12.5°	1140.0	1139.6	1134.6	1130.9	1121.4
15°	1114.1	1116.8	1114.1	1109.1	1101.4
17.5°	1089.1	1089.1	1090.9	1082.3	1076.4
20°	1060.9	1062.3	1062.3	1055.4	1048.6
22.5°	1028.2	1032.3	1033.6	1026.3	1018.2
25°	989.5	997.2	1001.8	994.5	985.9
27.5°	942.7	954.5	968.1	962.7	953.1
30°	890.4	907.7	930.4	925.8	919.0
32.5°	840.8	858.1	889.5	887.6	884.0
35°	795.8	806.7	843.5	848.1	844.9
37.5°	753.0	763.0	797.6	808.1	805.3
40°	708.0	718.9	746.2	764.9	765.8
42.5°	663.5	673.9	696.2	723.0	723.0
45°	616.2	626.6	647.1	676.6	680.3
47.5°	569.8	580.7	600.7	630.3	636.2
50°	524.3	534.3	554.3	583.0	592.1
52.5°	477.0	487.9	507.5	533.9	547.0
55°	431.5	438.8	460.2	485.7	499.8
57.5°	384.3	391.1	415.2	437.0	451.6
60°	338.8	347.4	366.1	388.3	405.2
62.5°	295.1	304.2	320.1	339.7	358.8
65°	252.8	259.7	275.1	294.7	311.5
67.5°	211.9	217.8	233.3	246.9	264.7
70°	170.5	178.3	189.6	202.8	214.2
72.5°	137.3	140.5	150.1	159.6	171.4
75°	101.4	106.9	114.6	120.1	126.9
77.5°	72.8	75.9	80.5	85.0	91.4
80°	48.7	50.0	54.1	55.0	60.0
82.5°	29.6	30.5	31.4	31.8	33.7
85°	15.9	15.9	15.9	15.0	15.0
87.5°	9.1	9.1	7.7	6.4	4.5
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)