

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: P555798

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-87-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: P555798
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-40-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

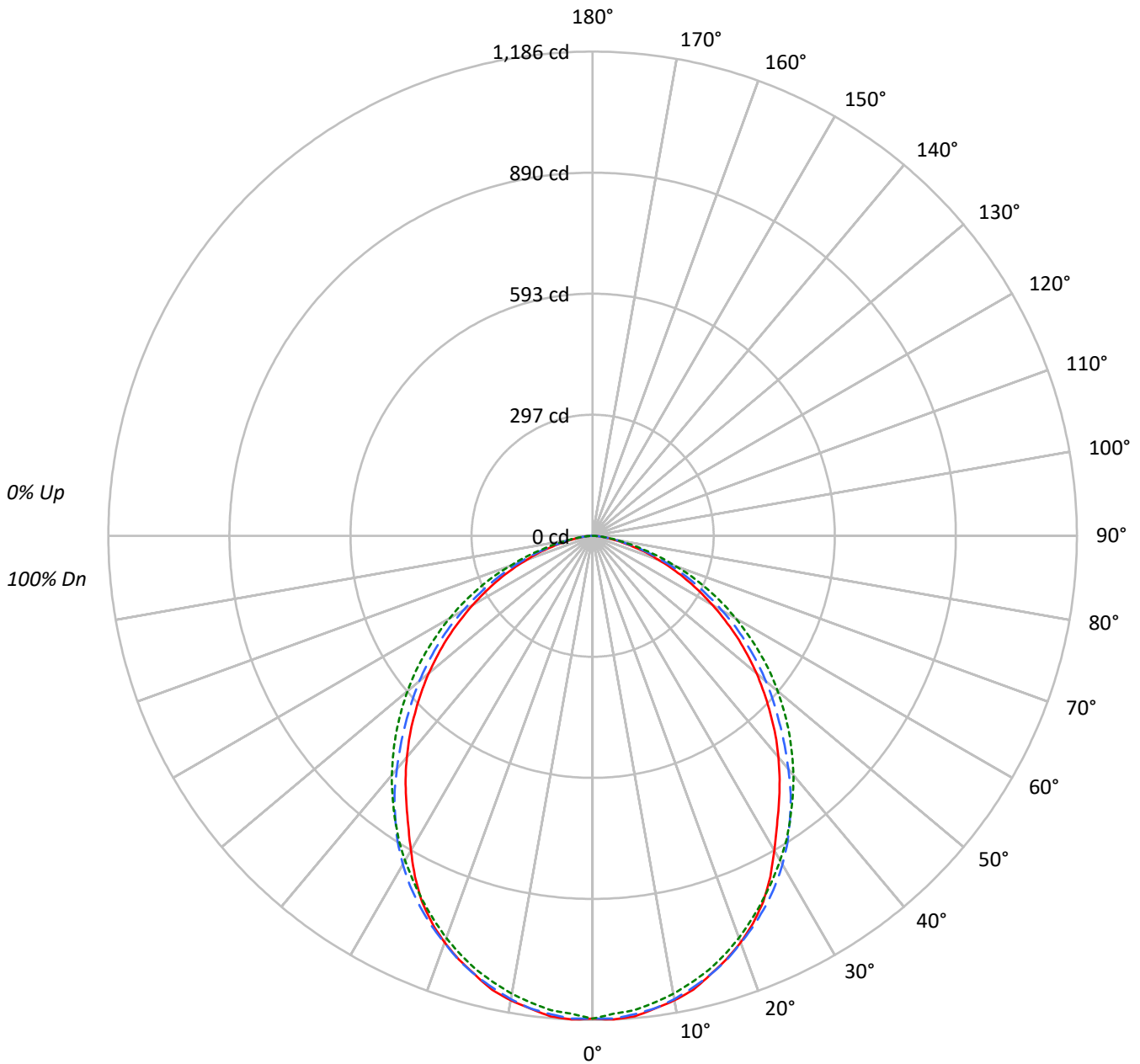
Lumens per Lamp: N/A
Luminaire Lumens: 2735.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	6366	6366	6366
5°	6383	6356	6302
10°	6315	6298	6226
15°	6203	6203	6132
20°	6072	6080	6002
25°	5872	5945	5850
30°	5529	5778	5707
35°	5225	5538	5547
40°	4971	5239	5376
45°	4686	4921	5174
50°	4387	4638	4953
55°	4046	4315	4686
60°	3644	3937	4358
65°	3217	3501	3964
70°	2681	2982	3367
75°	2106	2381	2637
80°	1506	1677	1860
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.1
10°-20°	312.9	11.4
20°-30°	457.2	16.7
30°-40°	519.0	19.0
40°-50°	501.0	18.3
50°-60°	413.3	15.1
60°-70°	275.2	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°	881.4	32.2
0°-40°	1400.4	51.2
0°-60°	2314.6	84.6
0°-90°	2735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1182	1181	1176	1170	1166	112
15°	1113	1116	1113	1108	1101	314
25°	989	996	1001	994	985	453
35°	795	806	843	848	844	498
45°	616	626	647	676	680	475
55°	431	438	460	485	499	385
65°	253	260	275	294	311	251
75°	101	107	114	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°	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1186.0	1186.5	1183.7	1176.5	1171.9
5°	1181.5	1181.0	1176.5	1170.1	1166.5
7.5°	1168.3	1169.2	1167.8	1158.7	1153.7
10°	1155.6	1156.0	1152.4	1145.1	1139.2
12.5°	1139.2	1138.7	1133.7	1130.1	1120.6
15°	1113.3	1116.0	1113.3	1108.3	1100.6
17.5°	1088.3	1088.3	1090.1	1081.5	1075.6
20°	1060.1	1061.5	1061.5	1054.7	1047.9
22.5°	1027.4	1031.5	1032.9	1025.6	1017.4
25°	988.8	996.5	1001.1	993.8	985.2
27.5°	942.0	953.8	967.4	962.0	952.4
30°	889.7	907.0	929.7	925.2	918.4
32.5°	840.2	857.5	888.8	887.0	883.4
35°	795.2	806.1	842.9	847.5	844.3
37.5°	752.5	762.5	797.0	807.5	804.8
40°	707.5	718.4	745.7	764.3	765.2
42.5°	663.0	673.4	695.7	722.5	722.5
45°	615.7	626.2	646.6	676.2	679.8
47.5°	569.4	580.3	600.3	629.8	635.7
50°	523.9	533.9	553.9	582.5	591.6
52.5°	476.7	487.6	507.1	533.5	546.6
55°	431.2	438.5	459.9	485.3	499.4
57.5°	384.0	390.8	414.9	436.7	451.2
60°	338.5	347.2	365.8	388.1	404.9
62.5°	294.9	304.0	319.9	339.4	358.5
65°	252.6	259.5	274.9	294.5	311.3
67.5°	211.8	217.7	233.1	246.7	264.5
70°	170.4	178.1	189.5	202.7	214.0
72.5°	137.2	140.4	150.0	159.5	171.3
75°	101.3	106.8	114.5	120.0	126.8
77.5°	72.7	75.9	80.4	85.0	91.3
80°	48.6	50.0	54.1	55.0	60.0
82.5°	29.5	30.4	31.4	31.8	33.6
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)