

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: P555764

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-86-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: P555764
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

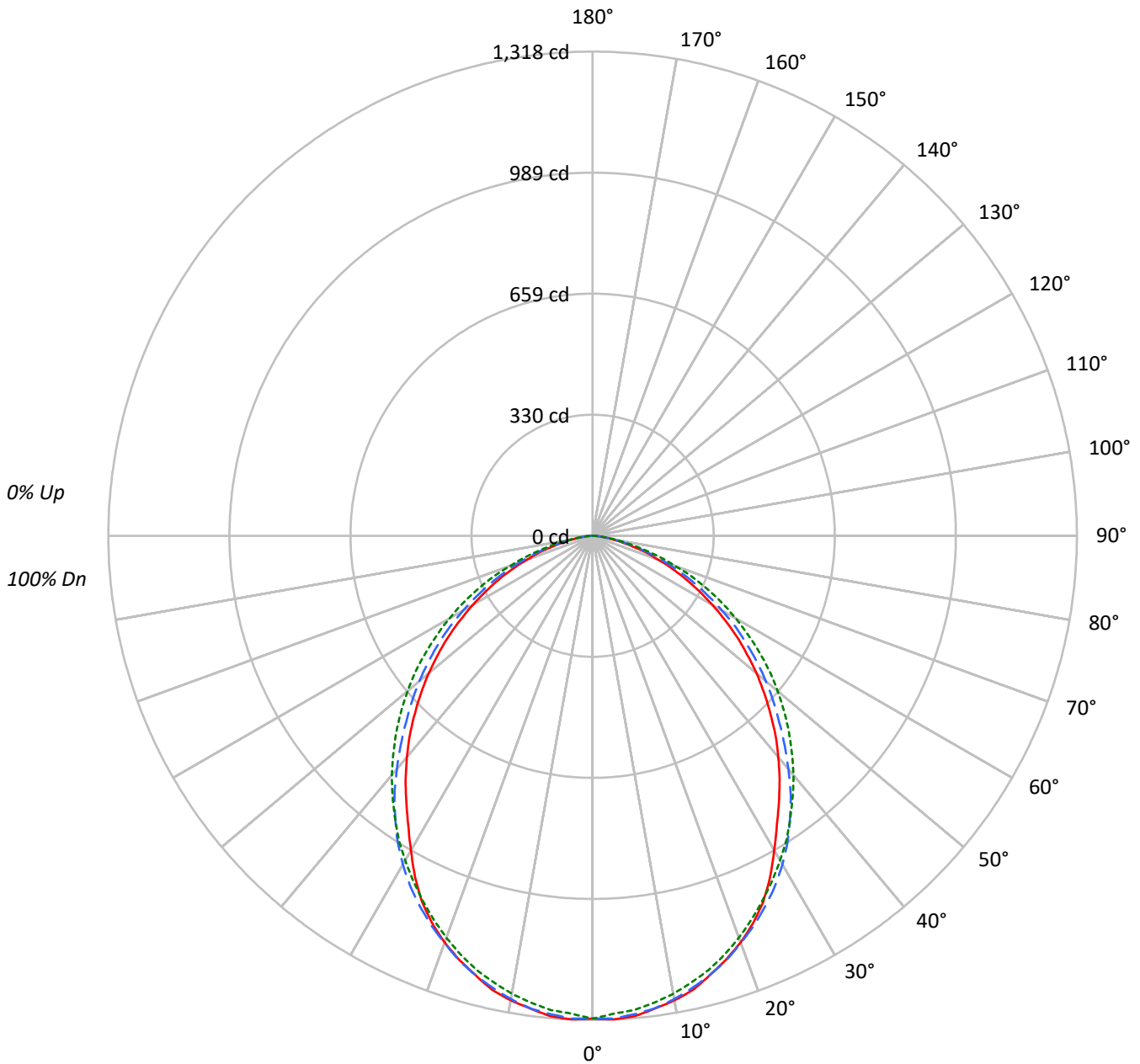
Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7074	7074	7074
5°	7092	7062	7002
10°	7017	6998	6918
15°	6892	6892	6814
20°	6747	6755	6668
25°	6524	6605	6501
30°	6144	6420	6341
35°	5805	6154	6163
40°	5523	5821	5974
45°	5208	5469	5750
50°	4875	5153	5504
55°	4496	4795	5207
60°	4049	4376	4843
65°	3575	3890	4405
70°	2979	3312	3742
75°	2341	2645	2930
80°	1674	1863	2064
85°	1093	1093	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.1
10°-20°	347.6	11.4
20°-30°	508.0	16.7
30°-40°	576.6	19.0
40°-50°	556.7	18.3
50°-60°	459.2	15.1
60°-70°	305.8	10.1
70°-80°	136.8	4.5
80°-90°	24.5	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°	979.4	32.2
0°-40°	1556.0	51.2
0°-60°	2571.9	84.6
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1313	1312	1307	1300	1296	124
15°	1237	1240	1237	1232	1223	349
25°	1099	1107	1112	1104	1095	503
35°	884	896	937	942	938	554
45°	684	696	718	751	755	528
55°	479	487	511	539	555	428
65°	281	288	306	327	346	278
75°	113	119	127	133	141	123
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.3	<i>1314.3</i>	1314.3	1314.3	1314.3
2.5°	<i>1317.8</i>	<i>1318.3</i>	<i>1315.3</i>	<i>1307.2</i>	<i>1302.2</i>
5°	1312.8	<i>1312.3</i>	1307.2	1300.2	1296.1
7.5°	1298.1	<i>1299.1</i>	1297.6	1287.5	1282.0
10°	1284.0	<i>1284.5</i>	1280.5	1272.4	1265.8
12.5°	1265.8	<i>1265.3</i>	1259.8	1255.7	1245.1
15°	1237.0	<i>1240.1</i>	1237.0	1231.5	1222.9
17.5°	1209.3	<i>1209.3</i>	1211.3	1201.7	1195.1
20°	1178.0	<i>1179.5</i>	1179.5	1171.9	1164.3
22.5°	1141.6	<i>1146.2</i>	1147.7	1139.6	1130.5
25°	1098.7	<i>1107.3</i>	1112.3	1104.2	1094.7
27.5°	1046.7	<i>1059.8</i>	1075.0	1068.9	1058.3
30°	988.6	<i>1007.8</i>	1033.1	1028.0	1020.4
32.5°	933.6	<i>952.8</i>	987.6	985.6	981.6
35°	883.6	<i>895.7</i>	936.6	941.7	938.1
37.5°	836.1	<i>847.2</i>	885.6	897.2	894.2
40°	786.1	<i>798.3</i>	828.6	849.3	850.3
42.5°	736.7	<i>748.3</i>	773.0	802.8	802.8
45°	684.2	<i>695.8</i>	718.5	751.3	755.4
47.5°	632.7	<i>644.8</i>	667.0	699.8	706.4
50°	582.2	<i>593.3</i>	615.5	647.3	657.4
52.5°	529.7	<i>541.8</i>	563.5	592.8	607.4
55°	479.2	<i>487.2</i>	511.0	539.2	554.9
57.5°	426.7	<i>434.2</i>	461.0	485.2	501.4
60°	376.2	<i>385.8</i>	406.5	431.2	449.9
62.5°	327.7	<i>337.8</i>	355.5	377.2	398.4
65°	280.7	<i>288.3</i>	305.5	327.2	345.9
67.5°	235.3	<i>241.9</i>	259.0	274.2	293.9
70°	189.3	<i>197.9</i>	210.5	225.2	237.8
72.5°	152.5	<i>156.0</i>	166.6	177.2	190.4
75°	112.6	<i>118.7</i>	127.2	133.3	140.9
77.5°	80.8	<i>84.3</i>	89.4	94.4	101.5
80°	54.0	<i>55.5</i>	60.1	61.1	66.6
82.5°	32.8	<i>33.8</i>	34.8	35.3	37.4
85°	17.7	<i>17.7</i>	17.7	16.7	16.7
87.5°	10.1	<i>10.1</i>	8.6	7.1	5.0
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)