

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: P555283

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-85-EDD**

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: P555283
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-40-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

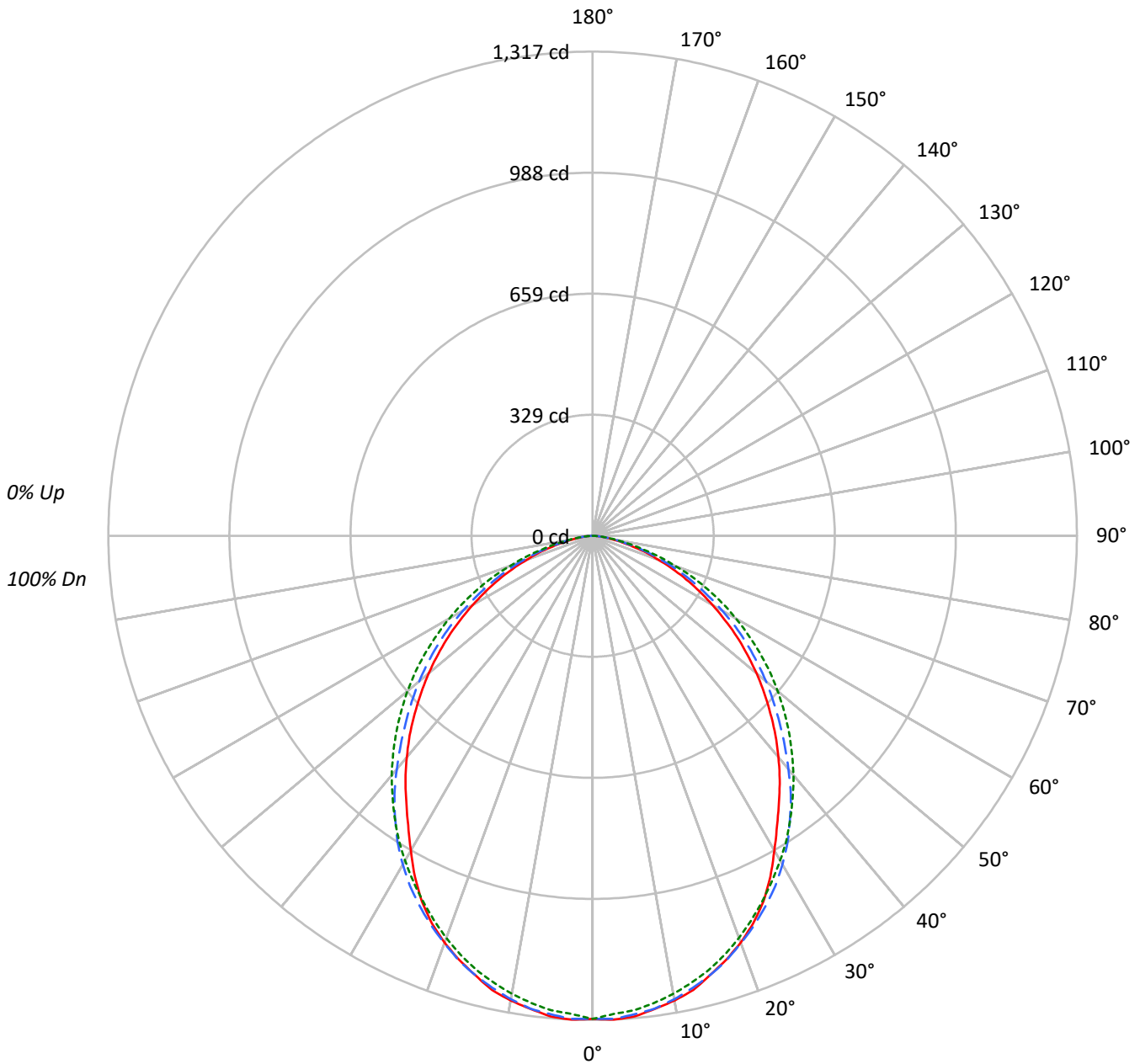
Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	7071	7071	7071
5°	7090	7060	7000
10°	7015	6995	6915
15°	6890	6890	6812
20°	6745	6753	6666
25°	6522	6603	6498
30°	6142	6418	6339
35°	5803	6152	6161
40°	5521	5819	5972
45°	5205	5467	5747
50°	4873	5152	5503
55°	4495	4793	5205
60°	4047	4373	4841
65°	3573	3889	4404
70°	2979	3312	3740
75°	2341	2645	2928
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°	347.5	11.4
20°-30°	507.8	16.7
30°-40°	576.5	19.0
40°-50°	556.5	18.3
50°-60°	459.1	15.1
60°-70°	305.7	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°	979.1	32.2
0°-40°	1555.5	51.2
0°-60°	2571.1	84.6
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1312	1312	1307	1300	1296	124
15°	1237	1240	1237	1231	1222	349
25°	1098	1107	1112	1104	1094	503
35°	883	895	936	941	938	553
45°	684	696	718	751	755	528
55°	479	487	511	539	555	428
65°	281	288	305	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°	1313.9	1313.9	1313.9	1313.9	1313.9
2.5°	1317.4	1317.9	1314.9	1306.8	1301.7
5°	1312.3	1311.8	1306.8	1299.7	1295.7
7.5°	1297.7	1298.7	1297.2	1287.1	1281.6
10°	1283.6	1284.1	1280.0	1272.0	1265.4
12.5°	1265.4	1264.9	1259.3	1255.3	1244.7
15°	1236.6	1239.7	1236.6	1231.1	1222.5
17.5°	1208.9	1208.9	1210.9	1201.3	1194.7
20°	1177.6	1179.1	1179.1	1171.5	1163.9
22.5°	1141.2	1145.8	1147.3	1139.2	1130.1
25°	1098.3	1106.9	1112.0	1103.9	1094.3
27.5°	1046.3	1059.5	1074.6	1068.5	1057.9
30°	988.3	1007.5	1032.7	1027.7	1020.1
32.5°	933.3	952.5	987.3	985.3	981.2
35°	883.3	895.4	936.3	941.4	937.8
37.5°	835.9	847.0	885.3	896.9	893.9
40°	785.9	798.0	828.3	849.0	850.0
42.5°	736.4	748.0	772.8	802.5	802.5
45°	683.9	695.5	718.3	751.1	755.1
47.5°	632.4	644.6	666.8	699.6	706.1
50°	582.0	593.1	615.3	647.1	657.2
52.5°	529.5	541.6	563.3	592.6	607.2
55°	479.0	487.1	510.8	539.1	554.7
57.5°	426.5	434.1	460.8	485.1	501.2
60°	376.0	385.6	406.3	431.1	449.7
62.5°	327.6	337.7	355.3	377.0	398.2
65°	280.6	288.2	305.4	327.1	345.8
67.5°	235.2	241.8	258.9	274.1	293.8
70°	189.3	197.9	210.5	225.1	237.7
72.5°	152.4	156.0	166.6	177.2	190.3
75°	112.6	118.6	127.2	133.3	140.8
77.5°	80.8	84.3	89.3	94.4	101.5
80°	54.0	55.5	60.1	61.1	66.6
82.5°	32.8	33.8	34.8	35.3	37.4
85°	17.7	17.7	17.7	16.7	16.7
87.5°	10.1	10.1	8.6	7.1	5.0
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)