

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: P555865

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-88-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: P555865
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-50-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

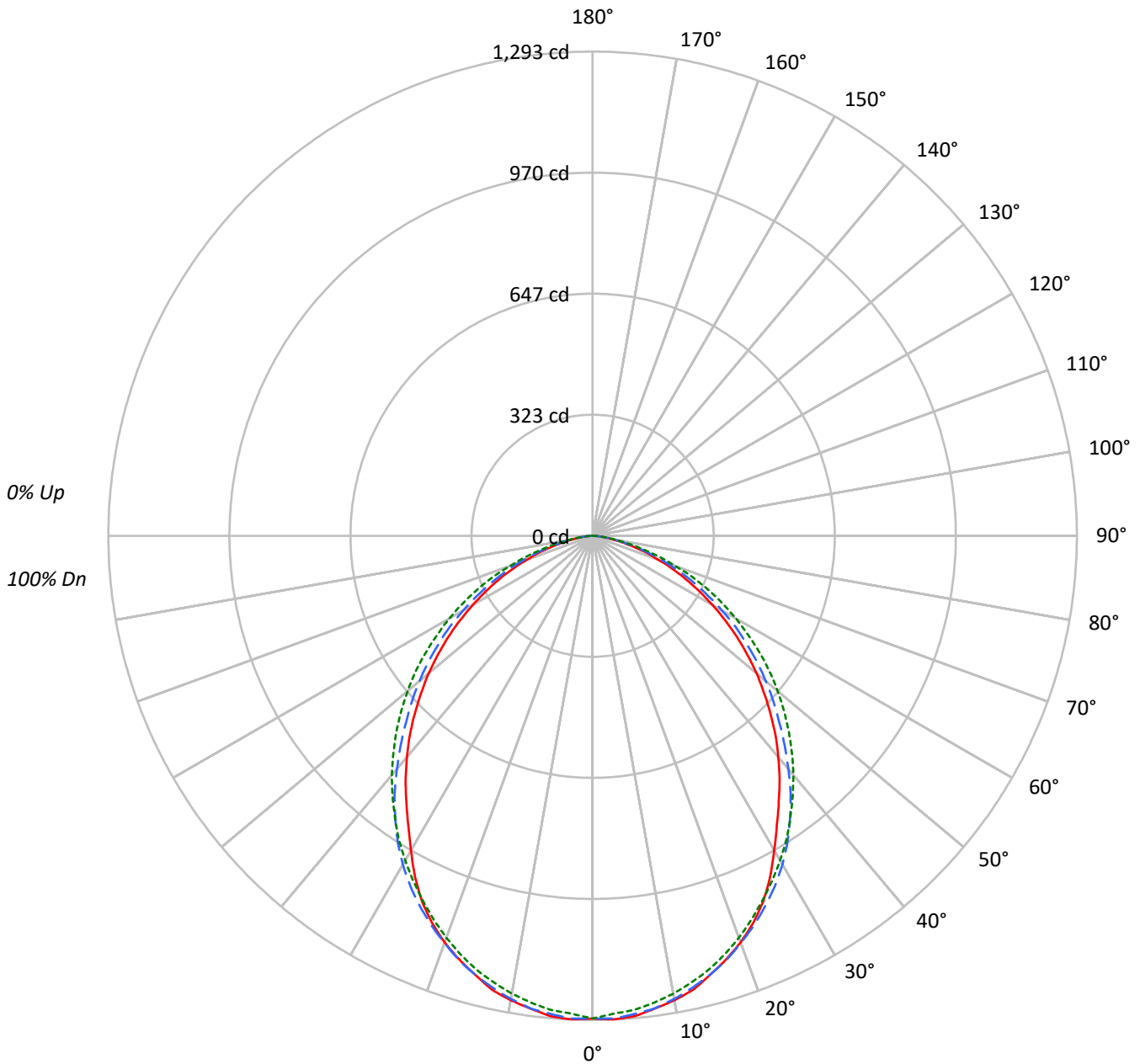
Lumens per Lamp: N/A
Luminaire Lumens: 2981.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6938	6938	6938
5°	6957	6928	6869
10°	6883	6864	6786
15°	6761	6761	6684
20°	6618	6627	6541
25°	6400	6479	6377
30°	6027	6297	6221
35°	5694	6036	6046
40°	5417	5710	5859
45°	5108	5364	5639
50°	4782	5055	5400
55°	4410	4703	5107
60°	3972	4292	4750
65°	3507	3815	4321
70°	2922	3249	3671
75°	2296	2595	2874
80°	1643	1826	2027
85°	1068	1068	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	4.1
10°-20°	341.0	11.4
20°-30°	498.3	16.7
30°-40°	565.6	19.0
40°-50°	546.0	18.3
50°-60°	450.4	15.1
60°-70°	300.0	10.1
70°-80°	134.2	4.5
80°-90°	24.0	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°	960.7	32.2
0°-40°	1526.3	51.2
0°-60°	2522.8	84.6
0°-90°	2981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1288	1287	1282	1275	1271	122
15°	1213	1216	1213	1208	1200	342
25°	1078	1086	1091	1083	1074	494
35°	867	879	919	924	920	543
45°	671	682	705	737	741	518
55°	470	478	501	529	544	419
65°	275	283	300	321	339	273
75°	110	116	125	131	138	121
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.2	1289.2	1289.2	1289.2	1289.2
2.5°	1292.7	1293.2	1290.2	1282.3	1277.3
5°	1287.7	1287.2	1282.3	1275.3	1271.4
7.5°	1273.4	1274.3	1272.9	1263.0	1257.5
10°	1259.5	1260.0	1256.0	1248.1	1241.7
12.5°	1241.7	1241.2	1235.7	1231.8	1221.4
15°	1213.4	1216.4	1213.4	1208.0	1199.6
17.5°	1186.2	1186.2	1188.2	1178.8	1172.3
20°	1155.5	1157.0	1157.0	1149.5	1142.1
22.5°	1119.8	1124.3	1125.8	1117.8	1108.9
25°	1077.7	1086.1	1091.1	1083.2	1073.8
27.5°	1026.7	1039.6	1054.4	1048.5	1038.1
30°	969.8	988.6	1013.3	1008.4	1001.0
32.5°	915.8	934.6	968.8	966.8	962.8
35°	866.7	878.6	918.7	923.7	920.2
37.5°	820.2	831.1	868.7	880.1	877.1
40°	771.1	783.0	812.7	833.1	834.0
42.5°	722.6	734.0	758.3	787.5	787.5
45°	671.1	682.5	704.8	737.0	740.9
47.5°	620.6	632.5	654.3	686.5	692.9
50°	571.1	582.0	603.7	634.9	644.9
52.5°	519.5	531.4	552.7	581.5	595.8
55°	470.0	477.9	501.2	529.0	544.3
57.5°	418.5	425.9	452.2	476.0	491.8
60°	369.0	378.4	398.7	423.0	441.3
62.5°	321.4	331.3	348.7	370.0	390.8
65°	275.4	282.8	299.6	320.9	339.3
67.5°	230.8	237.2	254.1	268.9	288.3
70°	185.7	194.1	206.5	220.9	233.3
72.5°	149.6	153.0	163.4	173.8	186.7
75°	110.4	116.4	124.8	130.8	138.2
77.5°	79.2	82.7	87.7	92.6	99.6
80°	53.0	54.5	58.9	59.9	65.4
82.5°	32.2	33.2	34.2	34.7	36.7
85°	17.3	17.3	17.3	16.3	16.3
87.5°	9.9	9.9	8.4	6.9	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)