

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: P555221

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-86-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: P555221
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

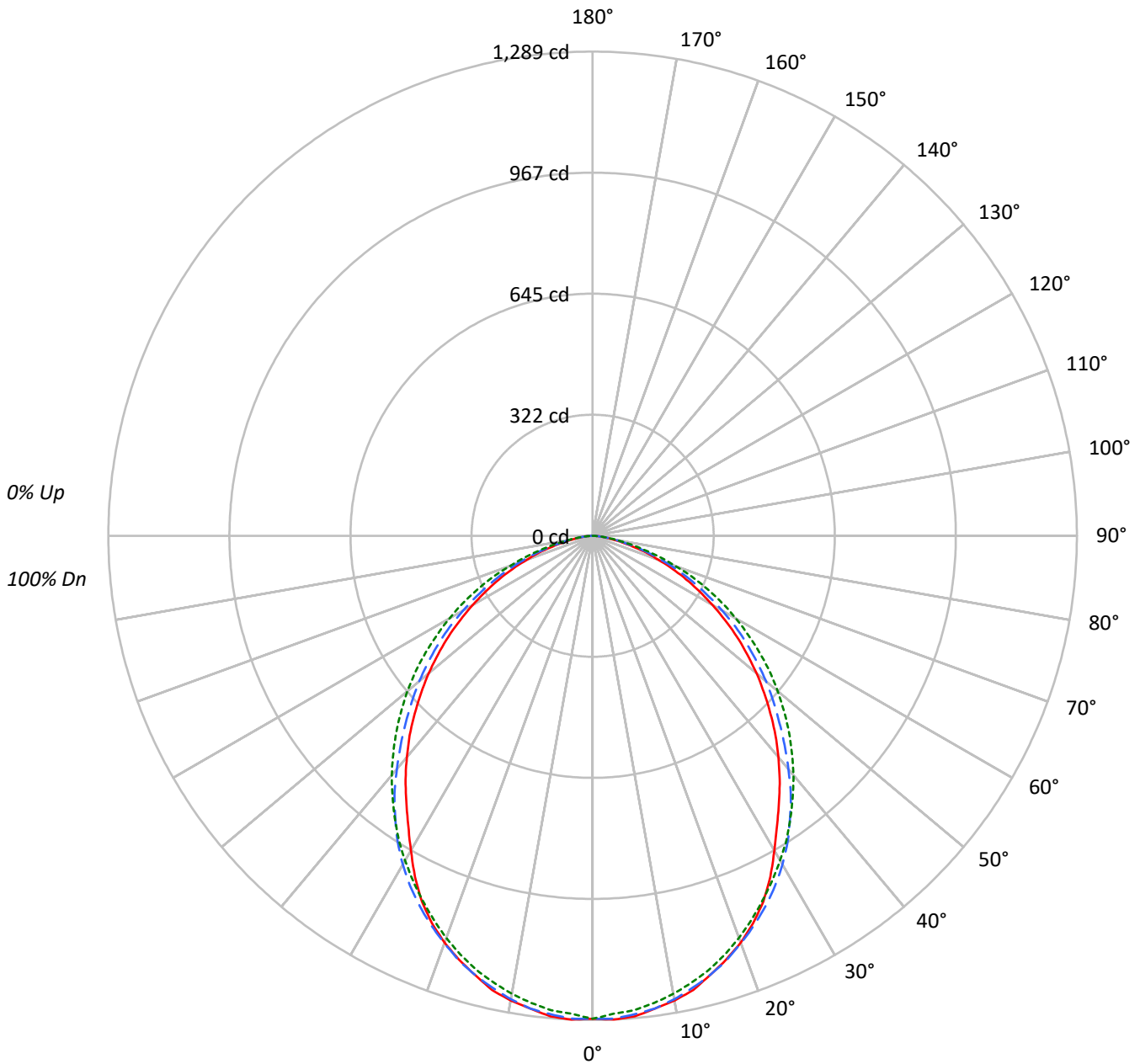
Lumens per Lamp: N/A
Luminaire Lumens: 2973.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6920	6920	6920
5°	6938	6909	6850
10°	6865	6846	6767
15°	6743	6743	6666
20°	6600	6609	6523
25°	6383	6462	6359
30°	6010	6280	6204
35°	5679	6020	6030
40°	5403	5695	5844
45°	5094	5350	5624
50°	4768	5041	5385
55°	4399	4691	5093
60°	3961	4280	4737
65°	3497	3805	4309
70°	2914	3242	3660
75°	2292	2589	2865
80°	1640	1822	2021
85°	1068	1068	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	4.1
10°-20°	340.1	11.4
20°-30°	497.0	16.7
30°-40°	564.1	19.0
40°-50°	544.6	18.3
50°-60°	449.2	15.1
60°-70°	299.1	10.1
70°-80°	133.9	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°	958.1	32.2
0°-40°	1522.2	51.2
0°-60°	2516.0	84.6
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1284	1284	1279	1272	1268	122
15°	1210	1213	1210	1205	1196	341
25°	1075	1083	1088	1080	1071	492
35°	864	876	916	921	918	542
45°	669	681	703	735	739	516
55°	469	477	500	528	543	418
65°	275	282	299	320	338	272
75°	110	116	124	130	138	120
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°	1285.7	1285.7	1285.7	1285.7	1285.7
2.5°	1289.2	1289.7	1286.7	1278.8	1273.9
5°	1284.3	1283.8	1278.8	1271.9	1268.0
7.5°	1269.9	1270.9	1269.4	1259.6	1254.1
10°	1256.1	1256.6	1252.7	1244.7	1238.3
12.5°	1238.3	1237.8	1232.4	1228.4	1218.1
15°	1210.2	1213.1	1210.2	1204.7	1196.3
17.5°	1183.0	1183.0	1185.0	1175.6	1169.2
20°	1152.4	1153.9	1153.9	1146.5	1139.0
22.5°	1116.8	1121.3	1122.7	1114.8	1105.9
25°	1074.8	1083.2	1088.2	1080.3	1070.9
27.5°	1024.0	1036.8	1051.6	1045.7	1035.3
30°	967.1	985.9	1010.6	1005.7	998.3
32.5°	913.3	932.1	966.2	964.2	960.2
35°	864.4	876.3	916.3	921.2	917.8
37.5°	818.0	828.8	866.4	877.7	874.8
40°	769.1	780.9	810.6	830.8	831.8
42.5°	720.7	732.0	756.2	785.4	785.4
45°	669.3	680.7	702.9	735.0	738.9
47.5°	618.9	630.8	652.5	684.6	691.0
50°	569.5	580.4	602.1	633.2	643.1
52.5°	518.2	530.0	551.2	579.9	594.2
55°	468.8	476.7	499.9	527.5	542.8
57.5°	417.4	424.8	451.0	474.7	490.5
60°	368.0	377.4	397.6	421.8	440.1
62.5°	320.6	330.5	347.7	369.0	389.7
65°	274.6	282.0	298.8	320.1	338.4
67.5°	230.2	236.6	253.4	268.2	287.5
70°	185.2	193.6	206.0	220.3	232.6
72.5°	149.2	152.6	163.0	173.4	186.2
75°	110.2	116.1	124.5	130.4	137.8
77.5°	79.0	82.5	87.4	92.4	99.3
80°	52.9	54.3	58.8	59.8	65.2
82.5°	32.1	33.1	34.1	34.6	36.6
85°	17.3	17.3	17.3	16.3	16.3
87.5°	9.9	9.9	8.4	6.9	4.9
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)