

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: P555207

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-87-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: P555207
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

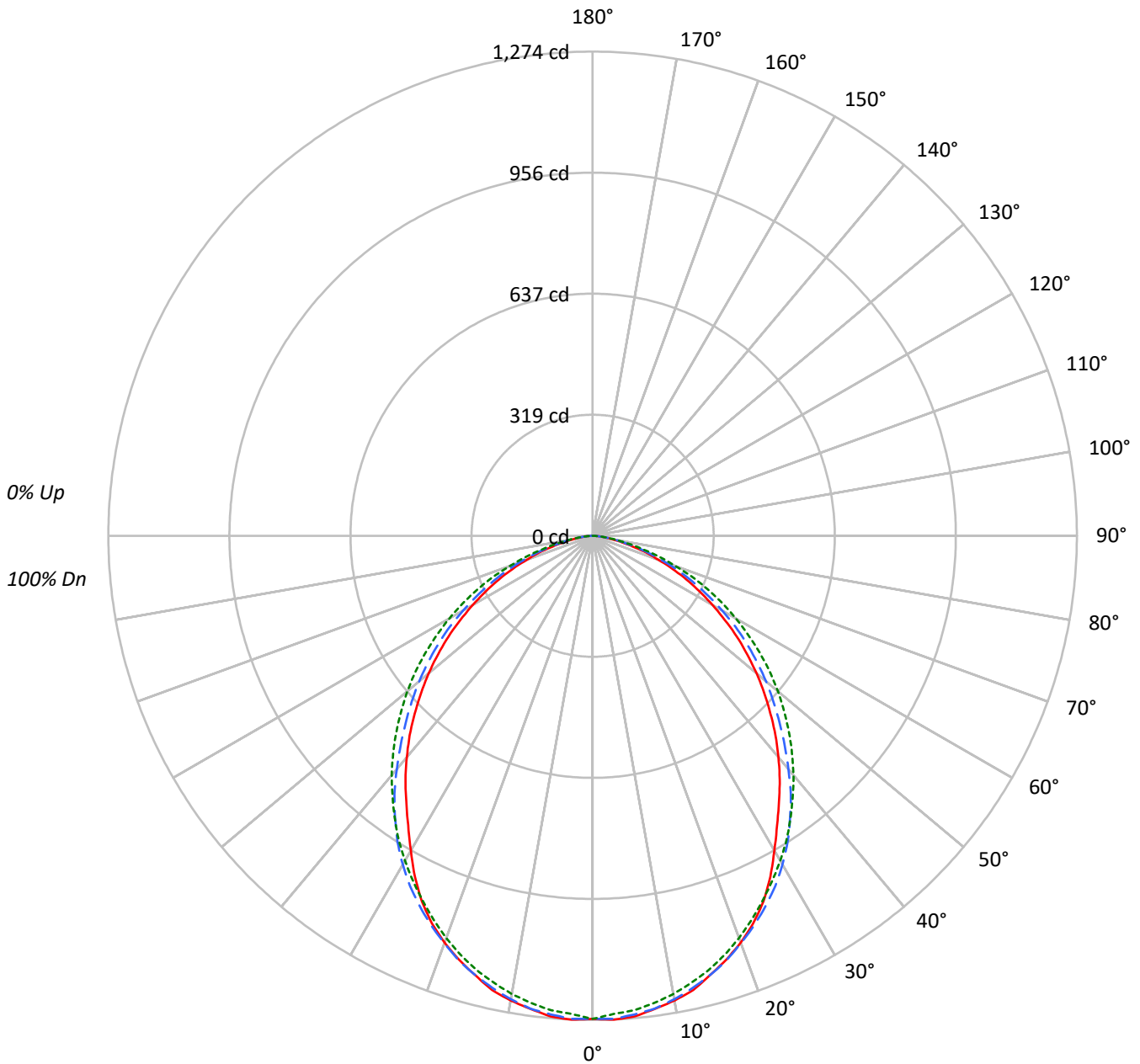
Lumens per Lamp: N/A
Luminaire Lumens: 2939.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6840	6840	6840
5°	6859	6830	6772
10°	6786	6767	6690
15°	6666	6666	6590
20°	6525	6533	6449
25°	6309	6388	6286
30°	5942	6209	6133
35°	5614	5951	5961
40°	5342	5630	5777
45°	5036	5288	5560
50°	4714	4984	5323
55°	4348	4637	5035
60°	3916	4231	4683
65°	3457	3762	4260
70°	2881	3204	3619
75°	2264	2560	2832
80°	1618	1801	1999
85°	1056	1056	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.1
10°-20°	336.2	11.4
20°-30°	491.3	16.7
30°-40°	557.7	19.0
40°-50°	538.3	18.3
50°-60°	444.1	15.1
60°-70°	295.7	10.1
70°-80°	132.3	4.5
80°-90°	23.7	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°	947.2	32.2
0°-40°	1504.8	51.2
0°-60°	2487.3	84.6
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1270	1269	1264	1257	1254	120
15°	1196	1199	1196	1191	1183	337
25°	1062	1071	1076	1068	1059	487
35°	854	866	906	911	907	535
45°	662	673	695	727	730	510
55°	463	471	494	522	537	414
65°	272	279	295	316	334	269
75°	109	115	123	129	136	119
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°	1271.0	1271.0	1271.0	1271.0	1271.0
2.5°	1274.5	1274.9	1272.0	1264.2	1259.3
5°	1269.6	1269.1	1264.2	1257.4	1253.5
7.5°	1255.4	1256.4	1254.9	1245.2	1239.8
10°	1241.7	1242.2	1238.3	1230.5	1224.2
12.5°	1224.2	1223.7	1218.3	1214.4	1204.1
15°	1196.3	1199.3	1196.3	1191.0	1182.7
17.5°	1169.5	1169.5	1171.4	1162.2	1155.8
20°	1139.2	1140.7	1140.7	1133.3	1126.0
22.5°	1104.0	1108.4	1109.9	1102.1	1093.3
25°	1062.5	1070.8	1075.7	1067.9	1058.6
27.5°	1012.2	1024.9	1039.6	1033.7	1023.5
30°	956.1	974.6	999.1	994.2	986.9
32.5°	902.9	921.4	955.1	953.2	949.3
35°	854.5	866.2	905.8	910.7	907.3
37.5°	808.6	819.4	856.5	867.7	864.8
40°	760.3	772.0	801.3	821.3	822.3
42.5°	712.4	723.7	747.6	776.4	776.4
45°	661.6	672.9	694.8	726.6	730.5
47.5°	611.8	623.6	645.0	676.8	683.1
50°	563.0	573.8	595.2	626.0	635.8
52.5°	512.2	523.9	544.9	573.3	587.4
55°	463.4	471.2	494.2	521.5	536.6
57.5°	412.6	419.9	445.8	469.3	484.9
60°	363.8	373.1	393.1	417.0	435.1
62.5°	316.9	326.7	343.8	364.8	385.3
65°	271.5	278.8	295.4	316.4	334.5
67.5°	227.5	233.9	250.5	265.1	284.2
70°	183.1	191.4	203.6	217.8	230.0
72.5°	147.5	150.9	161.1	171.4	184.1
75°	108.9	114.8	123.1	128.9	136.2
77.5°	78.1	81.5	86.4	91.3	98.1
80°	52.2	53.7	58.1	59.1	64.5
82.5°	31.7	32.7	33.7	34.2	36.1
85°	17.1	17.1	17.1	16.1	16.1
87.5°	9.8	9.8	8.3	6.8	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)