

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: P555157

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-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: P555157
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

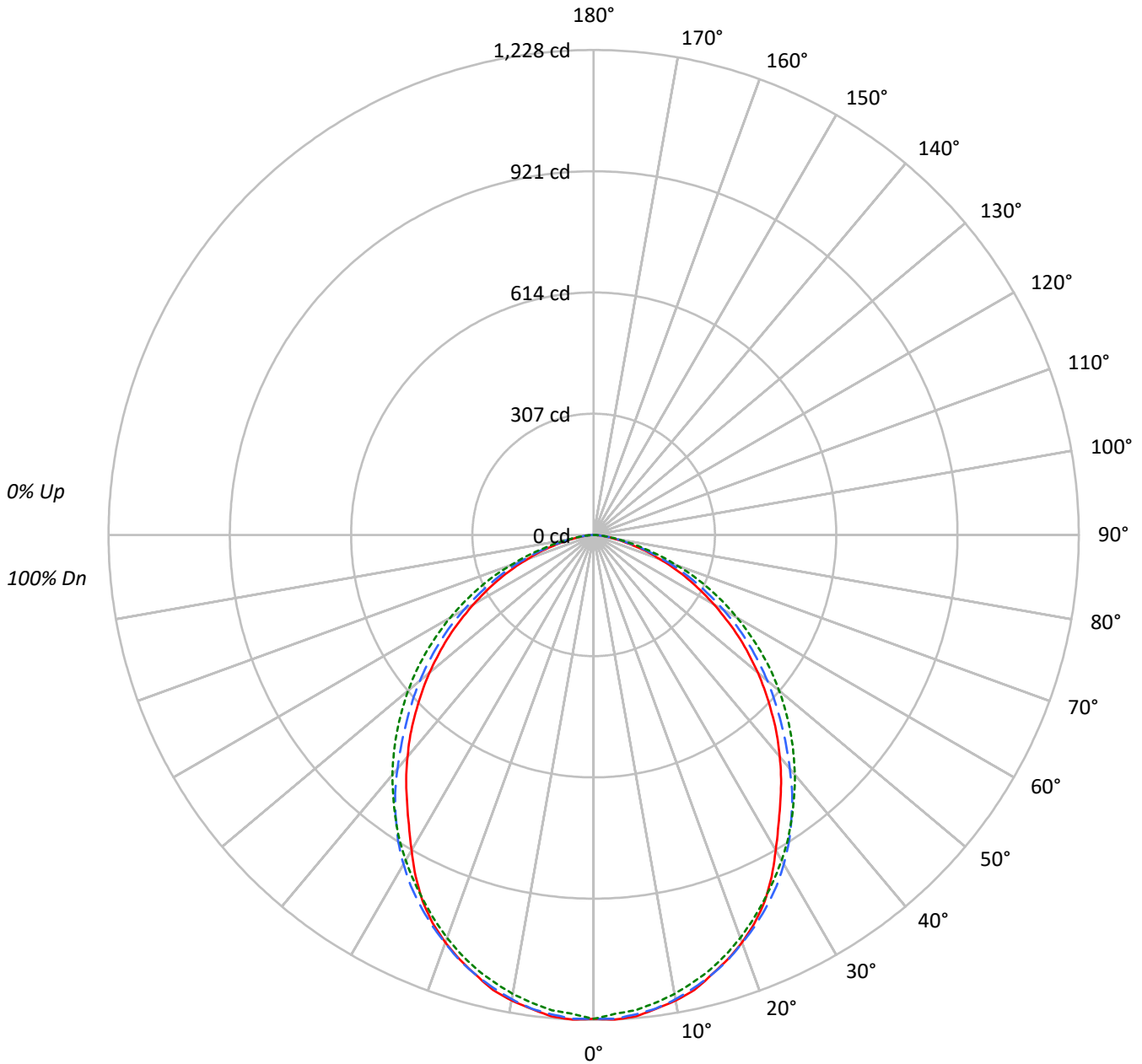
Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6594	6594	6594
5°	6612	6584	6528
10°	6542	6524	6449
15°	6425	6425	6352
20°	6289	6297	6216
25°	6082	6157	6060
30°	5727	5985	5912
35°	5412	5736	5746
40°	5149	5427	5569
45°	4854	5098	5359
50°	4544	4804	5131
55°	4191	4469	4854
60°	3775	4078	4514
65°	3333	3627	4106
70°	2777	3089	3489
75°	2183	2466	2730
80°	1562	1736	1925
85°	1019	1019	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	4.1
10°-20°	324.1	11.4
20°-30°	473.6	16.7
30°-40°	537.6	19.0
40°-50°	518.9	18.3
50°-60°	428.1	15.1
60°-70°	285.1	10.1
70°-80°	127.6	4.5
80°-90°	22.8	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°	913.0	32.2
0°-40°	1450.5	51.2
0°-60°	2397.6	84.6
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1224	1223	1219	1212	1208	116
15°	1153	1156	1153	1148	1140	325
25°	1024	1032	1037	1029	1020	469
35°	824	835	873	878	874	516
45°	638	649	670	700	704	492
55°	447	454	476	503	517	399
65°	262	269	285	305	322	259
75°	105	111	119	124	131	115
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1228.5	1229.0	1226.1	1218.6	1213.9
5°	1223.8	1223.3	1218.6	1212.0	1208.3
7.5°	1210.1	1211.1	1209.7	1200.3	1195.1
10°	1197.0	1197.4	1193.7	1186.1	1180.0
12.5°	1180.0	1179.5	1174.4	1170.6	1160.7
15°	1153.2	1156.0	1153.2	1148.0	1140.0
17.5°	1127.3	1127.3	1129.2	1120.2	1114.1
20°	1098.1	1099.5	1099.5	1092.5	1085.4
22.5°	1064.2	1068.5	1069.9	1062.3	1053.9
25°	1024.2	1032.2	1036.9	1029.4	1020.5
27.5°	975.7	988.0	1002.1	996.4	986.6
30°	921.6	939.5	963.0	958.3	951.3
32.5°	870.3	888.2	920.7	918.8	915.0
35°	823.7	835.0	873.1	877.8	874.5
37.5°	779.5	789.8	825.6	836.4	833.6
40°	732.9	744.2	772.4	791.7	792.6
42.5°	686.7	697.6	720.6	748.4	748.4
45°	637.8	648.6	669.8	700.4	704.1
47.5°	589.8	601.1	621.8	652.4	658.5
50°	542.7	553.1	573.8	603.4	612.8
52.5°	493.8	505.0	525.3	552.6	566.2
55°	446.7	454.2	476.3	502.7	517.3
57.5°	397.7	404.8	429.7	452.3	467.4
60°	350.7	359.6	378.9	402.0	419.4
62.5°	305.5	314.9	331.4	351.6	371.4
65°	261.7	268.8	284.8	305.0	322.4
67.5°	219.3	225.5	241.5	255.6	273.9
70°	176.5	184.5	196.3	209.9	221.7
72.5°	142.1	145.4	155.3	165.2	177.4
75°	105.0	110.6	118.6	124.3	131.3
77.5°	75.3	78.6	83.3	88.0	94.6
80°	50.4	51.8	56.0	57.0	62.1
82.5°	30.6	31.5	32.5	32.9	34.8
85°	16.5	16.5	16.5	15.5	15.5
87.5°	9.4	9.4	8.0	6.6	4.7
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)