

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: P555132

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-96-EDD-90**

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: P555132
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

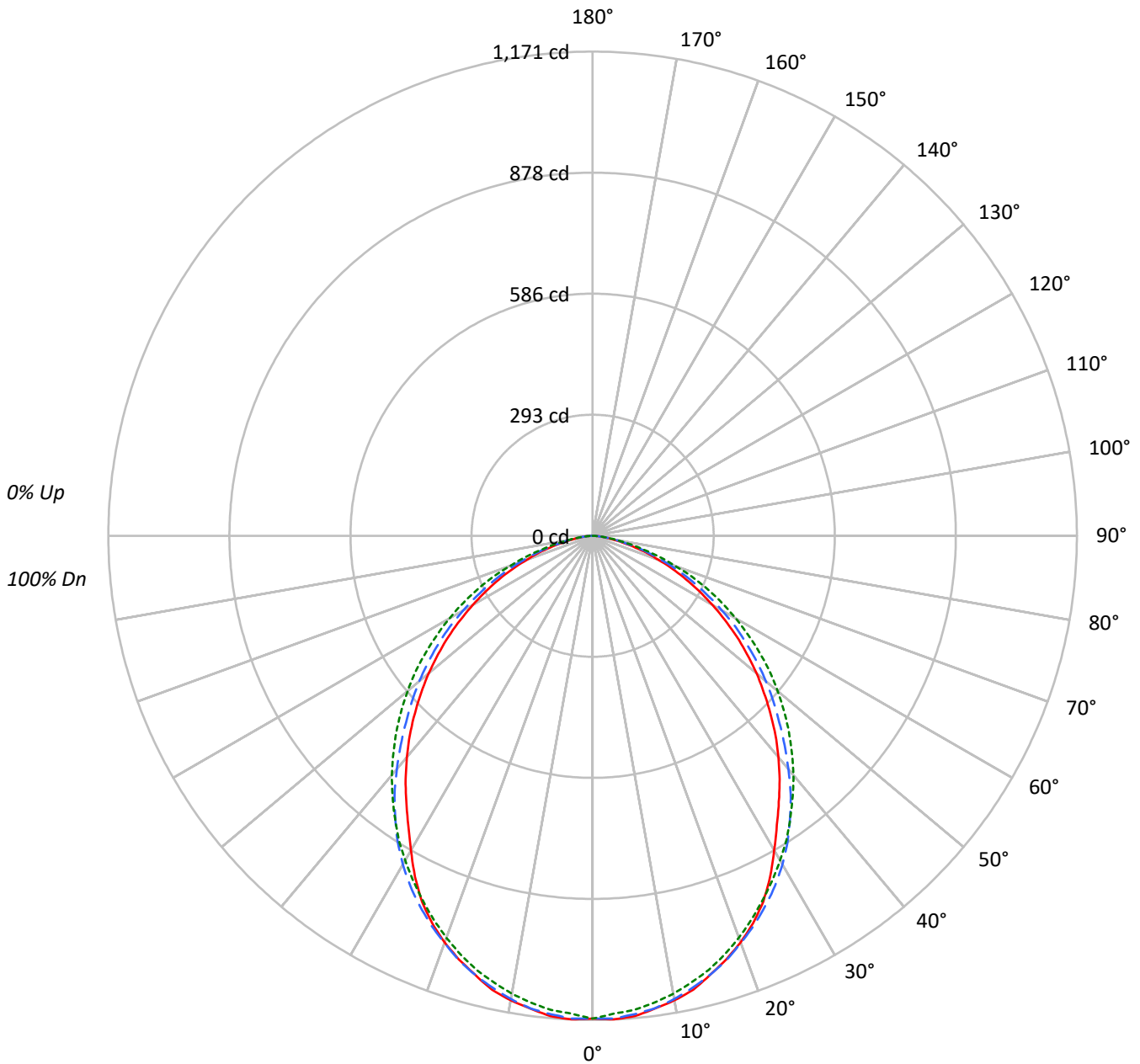
Lumens per Lamp: N/A
Luminaire Lumens: 2700.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6285	6285	6285
5°	6301	6274	6221
10°	6234	6217	6146
15°	6123	6123	6054
20°	5994	6002	5924
25°	5796	5868	5775
30°	5458	5704	5634
35°	5158	5467	5476
40°	4907	5172	5307
45°	4626	4858	5108
50°	4330	4578	4891
55°	3994	4260	4626
60°	3597	3887	4302
65°	3176	3456	3913
70°	2647	2944	3325
75°	2079	2350	2603
80°	1488	1655	1835
85°	969	969	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.1
10°-20°	308.9	11.4
20°-30°	451.3	16.7
30°-40°	512.3	19.0
40°-50°	494.6	18.3
50°-60°	408.0	15.1
60°-70°	271.7	10.1
70°-80°	121.6	4.5
80°-90°	21.8	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°	870.1	32.2
0°-40°	1382.4	51.2
0°-60°	2285.0	84.6
0°-90°	2700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1166	1166	1161	1155	1152	110
15°	1099	1102	1099	1094	1086	310
25°	976	984	988	981	972	447
35°	785	796	832	837	834	492
45°	608	618	638	668	671	469
55°	426	433	454	479	493	380
65°	249	256	271	291	307	247
75°	100	105	113	118	125	109
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1170.8	1171.3	1168.6	1161.4	1156.9
5°	1166.3	1165.9	1161.4	1155.1	1151.5
7.5°	1153.3	1154.2	1152.9	1143.9	1139.0
10°	1140.8	1141.2	1137.6	1130.4	1124.6
12.5°	1124.6	1124.2	1119.2	1115.6	1106.2
15°	1099.0	1101.7	1099.0	1094.1	1086.5
17.5°	1074.4	1074.4	1076.2	1067.6	1061.8
20°	1046.6	1047.9	1047.9	1041.2	1034.4
22.5°	1014.3	1018.3	1019.6	1012.5	1004.4
25°	976.1	983.8	988.2	981.1	972.5
27.5°	929.9	941.6	955.0	949.7	940.2
30°	878.3	895.4	917.8	913.3	906.6
32.5°	829.4	846.5	877.4	875.6	872.1
35°	785.0	795.8	832.1	836.6	833.5
37.5°	742.9	752.7	786.8	797.1	794.5
40°	698.5	709.2	736.1	754.5	755.4
42.5°	654.5	664.8	686.8	713.3	713.3
45°	607.8	618.2	638.3	667.5	671.1
47.5°	562.1	572.8	592.6	621.7	627.6
50°	517.2	527.1	546.8	575.1	584.1
52.5°	470.6	481.3	500.6	526.6	539.7
55°	425.7	432.9	454.0	479.1	493.0
57.5°	379.1	385.8	409.6	431.1	445.5
60°	334.2	342.7	361.1	383.1	399.7
62.5°	291.1	300.1	315.8	335.1	353.9
65°	249.4	256.1	271.4	290.7	307.3
67.5°	209.0	214.9	230.1	243.6	261.1
70°	168.2	175.8	187.1	200.1	211.3
72.5°	135.5	138.6	148.0	157.5	169.1
75°	100.0	105.4	113.0	118.4	125.2
77.5°	71.8	74.9	79.4	83.9	90.2
80°	48.0	49.3	53.4	54.3	59.2
82.5°	29.2	30.1	31.0	31.4	33.2
85°	15.7	15.7	15.7	14.8	14.8
87.5°	9.0	9.0	7.6	6.3	4.5
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)