

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: P555657

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-88-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: P555657
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-30-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

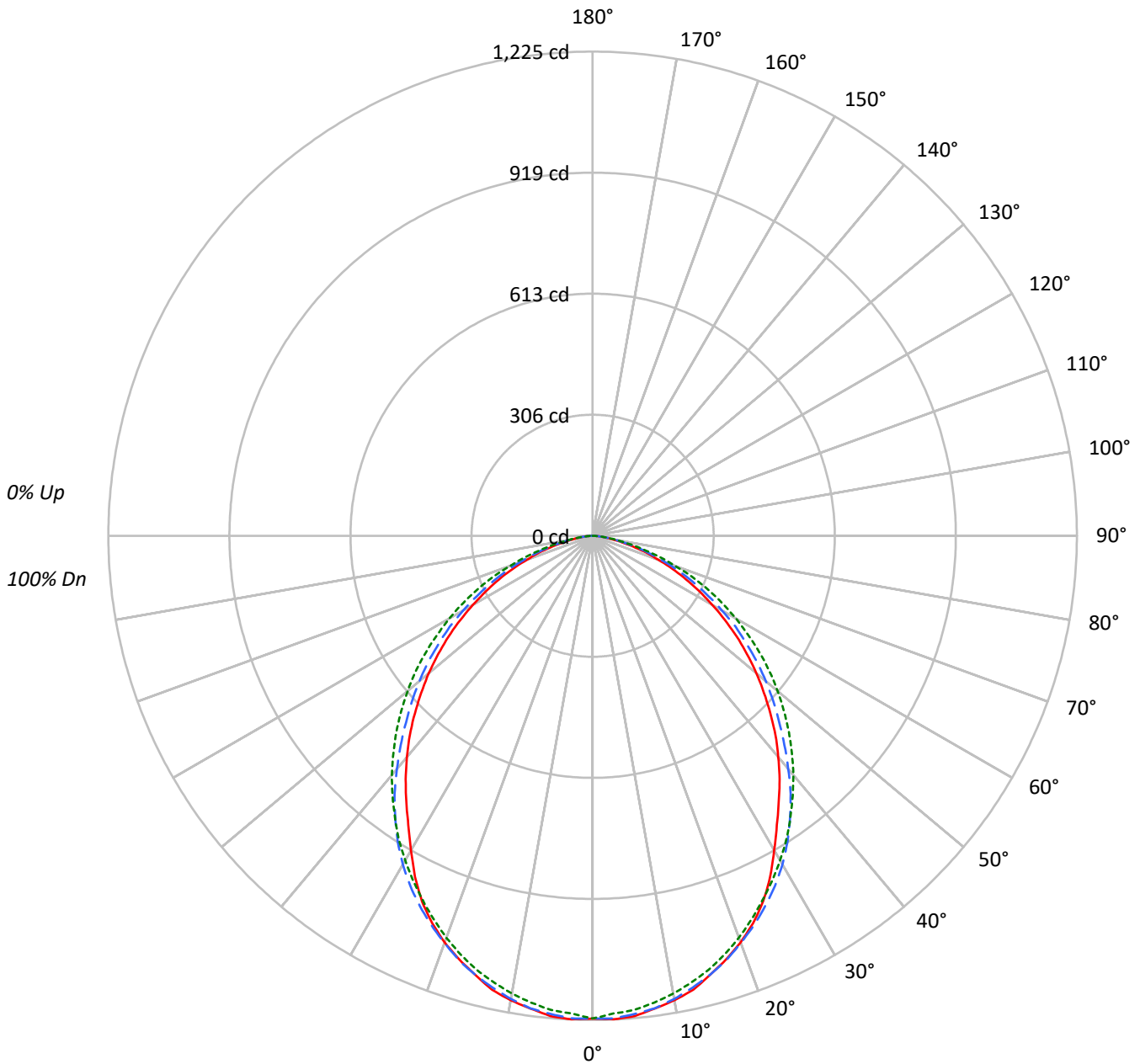
Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6573	6573	6573
5°	6591	6562	6507
10°	6521	6503	6428
15°	6405	6405	6332
20°	6269	6277	6197
25°	6063	6138	6040
30°	5709	5966	5893
35°	5395	5719	5728
40°	5132	5409	5551
45°	4839	5082	5342
50°	4530	4788	5115
55°	4178	4455	4838
60°	3762	4066	4500
65°	3323	3615	4093
70°	2768	3079	3478
75°	2175	2458	2722
80°	1556	1729	1918
85°	1013	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	4.1
10°-20°	323.0	11.4
20°-30°	472.1	16.7
30°-40°	535.8	19.0
40°-50°	517.3	18.3
50°-60°	426.7	15.1
60°-70°	284.2	10.1
70°-80°	127.2	4.5
80°-90°	22.7	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°	910.1	32.2
0°-40°	1445.9	51.2
0°-60°	2389.9	84.6
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1220	1219	1215	1208	1204	115
15°	1150	1152	1150	1144	1136	324
25°	1021	1029	1034	1026	1017	468
35°	821	832	870	875	872	514
45°	636	646	668	698	702	491
55°	445	453	475	501	516	397
65°	261	268	284	304	321	259
75°	105	110	118	124	131	114
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°	1221.3	1221.3	1221.3	1221.3	1221.3
2.5°	1224.6	1225.1	1222.2	1214.7	1210.0
5°	1219.9	1219.4	1214.7	1208.2	1204.4
7.5°	1206.3	1207.2	1205.8	1196.4	1191.3
10°	1193.2	1193.6	1189.9	1182.4	1176.3
12.5°	1176.3	1175.8	1170.6	1166.9	1157.0
15°	1149.5	1152.3	1149.5	1144.4	1136.4
17.5°	1123.7	1123.7	1125.6	1116.7	1110.6
20°	1094.6	1096.0	1096.0	1089.0	1082.0
22.5°	1060.8	1065.1	1066.5	1059.0	1050.5
25°	1021.0	1028.9	1033.6	1026.1	1017.2
27.5°	972.6	984.8	998.9	993.3	983.4
30°	918.7	936.5	960.0	955.3	948.2
32.5°	867.5	885.4	917.7	915.9	912.1
35°	821.1	832.3	870.4	875.0	871.8
37.5°	777.0	787.3	823.0	833.8	830.9
40°	730.5	741.8	769.9	789.2	790.1
42.5°	684.6	695.3	718.3	746.0	746.0
45°	635.8	646.5	667.7	698.2	701.9
47.5°	587.9	599.2	619.8	650.3	656.4
50°	541.0	551.3	571.9	601.5	610.9
52.5°	492.2	503.4	523.6	550.8	564.4
55°	445.3	452.8	474.8	501.1	515.6
57.5°	396.5	403.5	428.4	450.9	465.9
60°	349.5	358.5	377.7	400.7	418.1
62.5°	304.5	313.9	330.3	350.5	370.2
65°	260.9	267.9	283.9	304.0	321.4
67.5°	218.6	224.7	240.7	254.8	273.1
70°	175.9	183.9	195.7	209.3	221.0
72.5°	141.7	145.0	154.8	164.7	176.9
75°	104.6	110.3	118.2	123.9	130.9
77.5°	75.1	78.4	83.0	87.7	94.3
80°	50.2	51.6	55.8	56.8	61.9
82.5°	30.5	31.4	32.4	32.8	34.7
85°	16.4	16.4	16.4	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)