

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: P555172

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-86-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: P555172
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

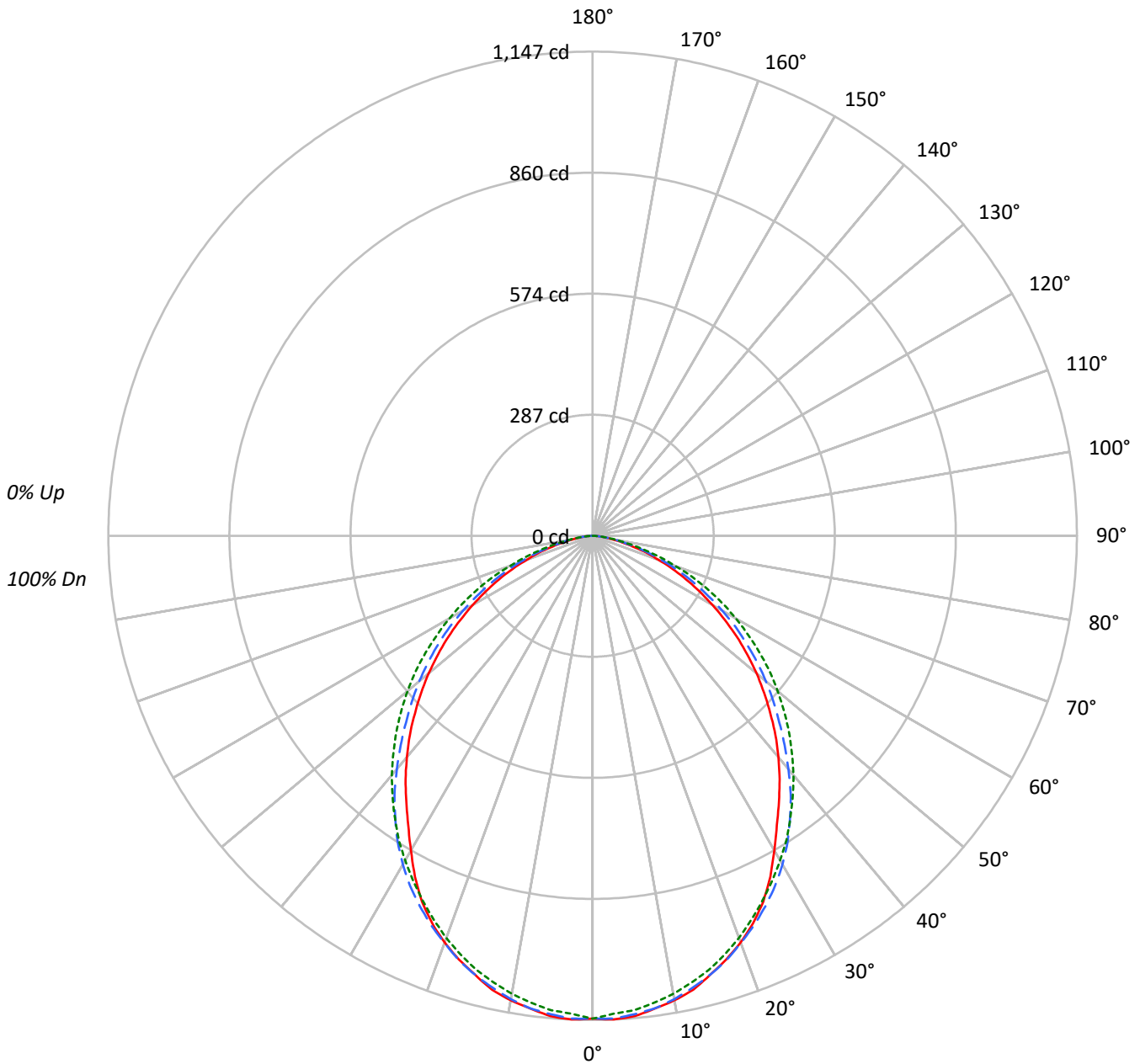
Lumens per Lamp: N/A
Luminaire Lumens: 2645.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6156	6156	6156
5°	6173	6146	6095
10°	6107	6091	6021
15°	5999	5999	5931
20°	5872	5880	5804
25°	5678	5749	5657
30°	5347	5588	5519
35°	5052	5356	5365
40°	4807	5066	5199
45°	4532	4759	5004
50°	4243	4485	4791
55°	3913	4173	4532
60°	3524	3808	4215
65°	3111	3386	3833
70°	2593	2884	3257
75°	2038	2302	2549
80°	1457	1621	1798
85°	951	951	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.1
10°-20°	302.6	11.4
20°-30°	442.1	16.7
30°-40°	501.9	19.0
40°-50°	484.5	18.3
50°-60°	399.7	15.1
60°-70°	266.2	10.1
70°-80°	119.1	4.5
80°-90°	21.3	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°	852.4	32.2
0°-40°	1354.3	51.2
0°-60°	2238.4	84.6
0°-90°	2645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1143	1142	1138	1132	1128	108
15°	1077	1079	1077	1072	1064	304
25°	956	964	968	961	953	438
35°	769	780	815	820	816	482
45°	596	606	625	654	657	459
55°	417	424	445	469	483	372
65°	244	251	266	285	301	242
75°	98	103	111	116	123	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.9	1143.9	1143.9	1143.9	1143.9
2.5°	1147.0	1147.4	1144.8	1137.7	1133.3
5°	1142.6	1142.1	1137.7	1131.6	1128.1
7.5°	1129.8	1130.7	1129.4	1120.6	1115.8
10°	1117.5	1118.0	1114.5	1107.4	1101.7
12.5°	1101.7	1101.3	1096.4	1092.9	1083.7
15°	1076.7	1079.3	1076.7	1071.8	1064.4
17.5°	1052.5	1052.5	1054.2	1045.9	1040.2
20°	1025.2	1026.6	1026.6	1020.0	1013.4
22.5°	993.6	997.6	998.9	991.8	983.9
25°	956.2	963.7	968.1	961.1	952.7
27.5°	911.0	922.4	935.6	930.3	921.1
30°	860.4	877.1	899.1	894.7	888.1
32.5°	812.5	829.2	859.6	857.8	854.3
35°	769.0	779.6	815.2	819.6	816.5
37.5°	727.7	737.4	770.8	780.9	778.3
40°	684.2	694.8	721.1	739.2	740.0
42.5°	641.2	651.3	672.8	698.7	698.7
45°	595.5	605.6	625.3	653.9	657.4
47.5°	550.6	561.2	580.5	609.1	614.8
50°	506.7	516.4	535.7	563.4	572.2
52.5°	461.0	471.5	490.4	515.9	528.7
55°	417.0	424.1	444.7	469.3	483.0
57.5°	371.3	377.9	401.2	422.3	436.4
60°	327.4	335.7	353.8	375.3	391.6
62.5°	285.2	294.0	309.4	328.3	346.7
65°	244.3	250.9	265.9	284.8	301.0
67.5°	204.8	210.5	225.4	238.6	255.8
70°	164.8	172.3	183.3	196.0	207.0
72.5°	132.7	135.8	145.0	154.2	165.7
75°	98.0	103.3	110.7	116.0	122.6
77.5°	70.3	73.4	77.8	82.2	88.3
80°	47.0	48.3	52.3	53.2	58.0
82.5°	28.6	29.4	30.3	30.8	32.5
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.2	4.4
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)