

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: P555680

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-84-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: P555680
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

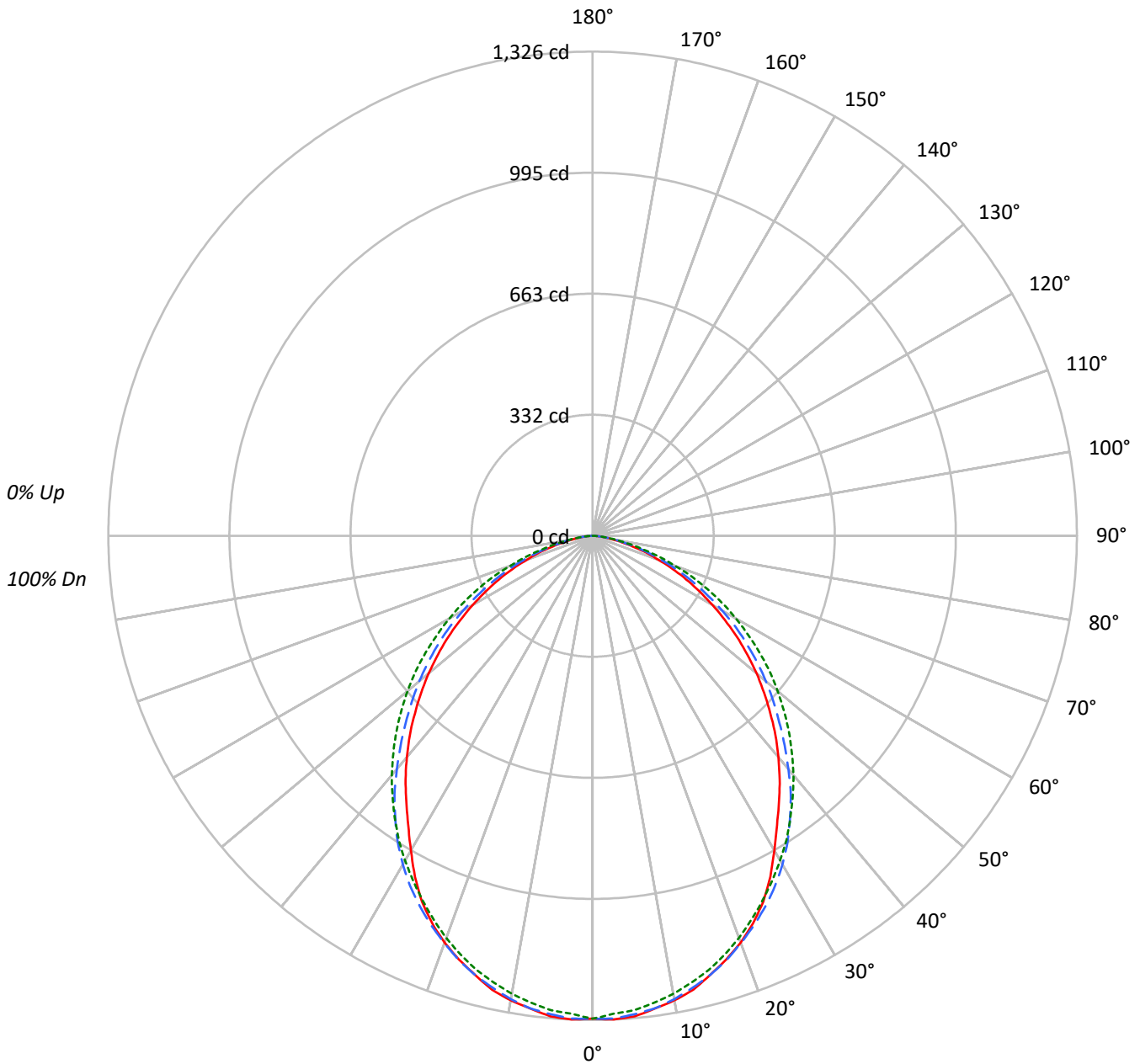
Lumens per Lamp: N/A
Luminaire Lumens: 3058.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7118	7118	7118
5°	7137	7106	7046
10°	7061	7042	6961
15°	6936	6936	6856
20°	6789	6798	6710
25°	6565	6647	6541
30°	6182	6460	6381
35°	5842	6192	6202
40°	5558	5857	6011
45°	5240	5503	5785
50°	4905	5185	5539
55°	4525	4825	5240
60°	4074	4402	4873
65°	3598	3915	4432
70°	2998	3334	3766
75°	2356	2662	2949
80°	1686	1875	2080
85°	1099	1099	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	4.1
10°-20°	349.8	11.4
20°-30°	511.2	16.7
30°-40°	580.3	19.0
40°-50°	560.1	18.3
50°-60°	462.1	15.1
60°-70°	307.7	10.1
70°-80°	137.7	4.5
80°-90°	24.6	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°	985.5	32.2
0°-40°	1565.8	51.2
0°-60°	2588.0	84.6
0°-90°	3058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1321	1320	1315	1308	1304	125
15°	1245	1248	1245	1239	1230	351
25°	1106	1114	1119	1111	1102	506
35°	889	901	942	948	944	557
45°	688	700	723	756	760	531
55°	482	490	514	543	558	430
65°	282	290	307	329	348	280
75°	113	119	128	134	142	124
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1326.1	1326.6	1323.5	1315.4	1310.3
5°	1321.0	1320.5	1315.4	1308.3	1304.2
7.5°	1306.2	1307.3	1305.7	1295.6	1290.0
10°	1292.0	1292.5	1288.5	1280.3	1273.7
12.5°	1273.7	1273.2	1267.6	1263.6	1252.9
15°	1244.8	1247.8	1244.8	1239.2	1230.5
17.5°	1216.8	1216.8	1218.9	1209.2	1202.6
20°	1185.3	1186.9	1186.9	1179.2	1171.6
22.5°	1148.7	1153.3	1154.8	1146.7	1137.6
25°	1105.6	1114.2	1119.3	1111.1	1101.5
27.5°	1053.2	1066.4	1081.7	1075.6	1064.9
30°	994.8	1014.1	1039.5	1034.4	1026.8
32.5°	939.4	958.7	993.8	991.8	987.7
35°	889.1	901.3	942.5	947.6	944.0
37.5°	841.4	852.5	891.2	902.8	899.8
40°	791.1	803.3	833.7	854.6	855.6
42.5°	741.3	753.0	777.9	807.8	807.8
45°	688.4	700.1	723.0	756.0	760.1
47.5°	636.6	648.8	671.2	704.2	710.8
50°	585.8	597.0	619.3	651.3	661.5
52.5°	533.0	545.2	567.0	596.5	611.2
55°	482.2	490.3	514.2	542.6	558.4
57.5°	429.3	436.9	463.9	488.3	504.5
60°	378.5	388.2	409.0	433.9	452.7
62.5°	329.7	339.9	357.7	379.5	400.9
65°	282.5	290.1	307.4	329.2	348.0
67.5°	236.8	243.4	260.6	275.9	295.7
70°	190.5	199.2	211.9	226.6	239.3
72.5°	153.4	157.0	167.7	178.3	191.5
75°	113.3	119.4	128.0	134.1	141.8
77.5°	81.3	84.8	89.9	95.0	102.1
80°	54.4	55.9	60.5	61.5	67.1
82.5°	33.0	34.0	35.1	35.6	37.6
85°	17.8	17.8	17.8	16.8	16.8
87.5°	10.2	10.2	8.6	7.1	5.1
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)