

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: P555684

Luminaire Tested: **FUSL-12-2-LD4-3LO-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: P555684
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-93-86-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

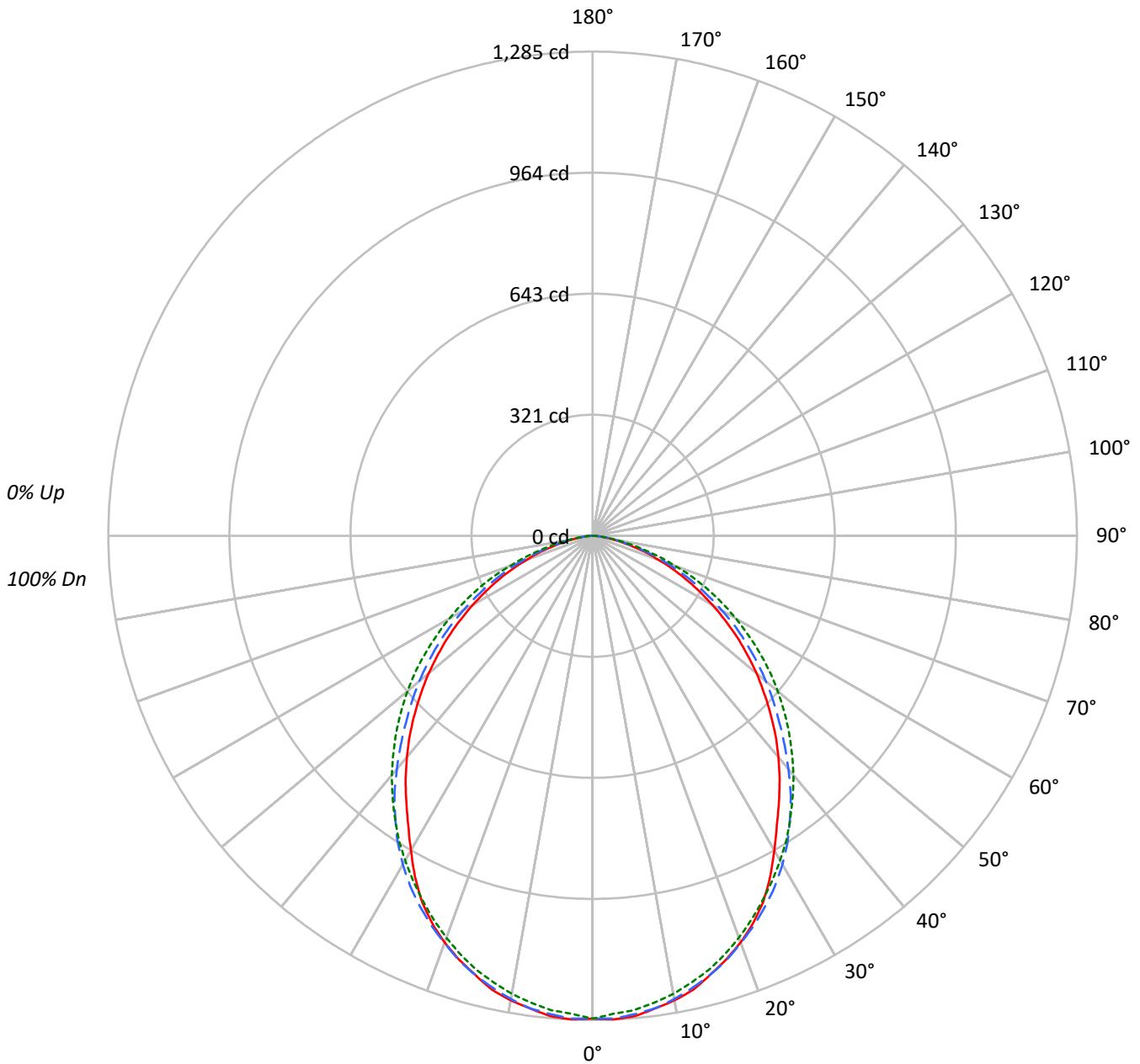
Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6896	6896	6896
5°	6915	6886	6827
10°	6842	6822	6745
15°	6720	6720	6643
20°	6578	6586	6502
25°	6361	6440	6338
30°	5990	6259	6183
35°	5660	6000	6010
40°	5385	5675	5824
45°	5077	5332	5606
50°	4752	5025	5367
55°	4384	4675	5076
60°	3948	4266	4721
65°	3486	3792	4294
70°	2905	3231	3649
75°	2283	2581	2855
80°	1633	1816	2015
85°	1062	1062	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	4.1
10°-20°	338.9	11.4
20°-30°	495.3	16.7
30°-40°	562.2	19.0
40°-50°	542.7	18.3
50°-60°	447.7	15.1
60°-70°	298.1	10.1
70°-80°	133.4	4.5
80°-90°	23.9	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°	954.9	32.2
0°-40°	1517.1	51.2
0°-60°	2507.6	84.6
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1280	1280	1274	1268	1264	121
15°	1206	1209	1206	1201	1192	340
25°	1071	1080	1084	1077	1067	491
35°	862	873	913	918	915	540
45°	667	678	700	732	736	515
55°	467	475	498	526	541	417
65°	274	281	298	319	337	271
75°	110	116	124	130	137	120
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1284.9	1285.4	1282.4	1274.5	1269.6
5°	1279.9	1279.5	1274.5	1267.6	1263.7
7.5°	1265.7	1266.7	1265.2	1255.3	1249.9
10°	1251.9	1252.4	1248.4	1240.6	1234.2
12.5°	1234.2	1233.7	1228.3	1224.3	1214.0
15°	1206.1	1209.1	1206.1	1200.7	1192.3
17.5°	1179.0	1179.0	1181.0	1171.6	1165.2
20°	1148.5	1150.0	1150.0	1142.6	1135.2
22.5°	1113.1	1117.5	1119.0	1111.1	1102.2
25°	1071.2	1079.6	1084.5	1076.6	1067.3
27.5°	1020.5	1033.3	1048.1	1042.2	1031.8
30°	963.9	982.6	1007.2	1002.3	994.9
32.5°	910.2	928.9	962.9	960.9	957.0
35°	861.5	873.3	913.2	918.1	914.7
37.5°	815.2	826.1	863.5	874.8	871.8
40°	766.5	778.3	807.8	828.0	829.0
42.5°	718.2	729.6	753.7	782.7	782.7
45°	667.0	678.4	700.5	732.5	736.5
47.5°	616.8	628.6	650.3	682.3	688.7
50°	567.6	578.4	600.1	631.1	641.0
52.5°	516.4	528.2	549.4	577.9	592.2
55°	467.2	475.1	498.2	525.8	541.0
57.5°	416.0	423.4	449.5	473.1	488.8
60°	366.8	376.1	396.3	420.4	438.6
62.5°	319.5	329.3	346.6	367.7	388.4
65°	273.7	281.1	297.8	319.0	337.2
67.5°	229.4	235.8	252.5	267.3	286.5
70°	184.6	193.0	205.3	219.6	231.9
72.5°	148.7	152.1	162.5	172.8	185.6
75°	109.8	115.7	124.1	130.0	137.3
77.5°	78.8	82.2	87.1	92.1	98.9
80°	52.7	54.2	58.6	59.6	65.0
82.5°	32.0	33.0	34.0	34.5	36.4
85°	17.2	17.2	17.2	16.2	16.2
87.5°	9.8	9.8	8.4	6.9	4.9
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)