

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: P555879

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-87-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: P555879
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-50-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

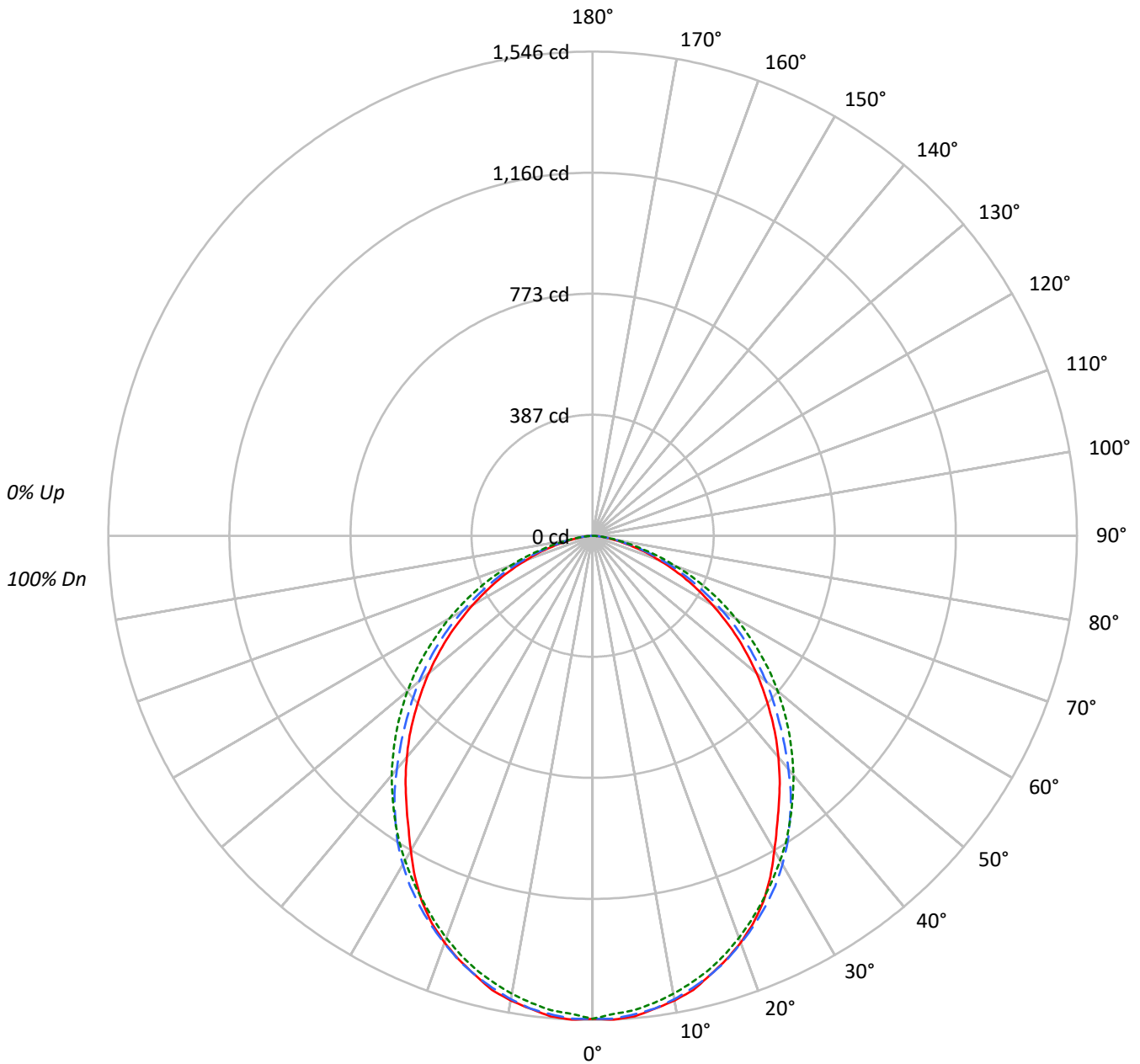
Lumens per Lamp: N/A
Luminaire Lumens: 3566.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8300	8300	8300
5°	8322	8287	8217
10°	8234	8211	8117
15°	8088	8088	7996
20°	7916	7927	7825
25°	7656	7751	7628
30°	7209	7533	7441
35°	6812	7221	7232
40°	6481	6830	7009
45°	6110	6417	6746
50°	5719	6047	6459
55°	5276	5626	6109
60°	4751	5133	5682
65°	4195	4564	5168
70°	3496	3888	4392
75°	2747	3105	3437
80°	1965	2185	2424
85°	1278	1278	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.1
10°-20°	407.9	11.4
20°-30°	596.1	16.7
30°-40°	676.6	19.0
40°-50°	653.2	18.3
50°-60°	538.8	15.1
60°-70°	358.8	10.1
70°-80°	160.6	4.5
80°-90°	28.7	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°	1149.2	32.2
0°-40°	1825.9	51.2
0°-60°	3017.9	84.6
0°-90°	3566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1540	1540	1534	1526	1521	146
15°	1452	1455	1452	1445	1435	409
25°	1289	1299	1305	1296	1284	590
35°	1037	1051	1099	1105	1101	650
45°	803	816	843	882	886	619
55°	562	572	600	633	651	502
65°	329	338	358	384	406	327
75°	132	139	149	156	165	144
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1546.4	1546.9	1543.4	1533.9	1528.0
5°	1540.4	1539.8	1533.9	1525.6	1520.9
7.5°	1523.2	1524.4	1522.7	1510.8	1504.3
10°	1506.7	1507.2	1502.5	1493.0	1485.3
12.5°	1485.3	1484.7	1478.2	1473.5	1461.0
15°	1451.6	1455.1	1451.6	1445.0	1435.0
17.5°	1419.0	1419.0	1421.3	1410.1	1402.4
20°	1382.2	1384.0	1384.0	1375.1	1366.2
22.5°	1339.6	1344.9	1346.7	1337.2	1326.5
25°	1289.2	1299.3	1305.2	1295.7	1284.5
27.5°	1228.2	1243.6	1261.4	1254.3	1241.8
30°	1160.1	1182.6	1212.2	1206.3	1197.4
32.5°	1095.5	1118.0	1158.9	1156.5	1151.8
35°	1036.8	1051.0	1099.0	1105.0	1100.8
37.5°	981.1	994.2	1039.2	1052.8	1049.3
40°	922.5	936.7	972.2	996.5	997.7
42.5°	864.4	878.0	907.1	942.0	942.0
45°	802.8	816.4	843.1	881.6	886.3
47.5°	742.4	756.6	782.7	821.2	828.9
50°	683.1	696.2	722.2	759.5	771.4
52.5°	621.5	635.7	661.2	695.6	712.7
55°	562.3	571.7	599.6	632.8	651.1
57.5°	500.6	509.5	540.9	569.4	588.3
60°	441.4	452.6	476.9	506.0	527.9
62.5°	384.5	396.4	417.1	442.6	467.5
65°	329.4	338.3	358.4	383.9	405.8
67.5°	276.1	283.8	303.9	321.7	344.8
70°	222.2	232.2	247.1	264.2	279.1
72.5°	178.9	183.1	195.5	208.0	223.4
75°	132.1	139.2	149.3	156.4	165.3
77.5°	94.8	98.9	104.9	110.8	119.1
80°	63.4	65.2	70.5	71.7	78.2
82.5°	38.5	39.7	40.9	41.5	43.8
85°	20.7	20.7	20.7	19.6	19.6
87.5°	11.8	11.8	10.1	8.3	5.9
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)