

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: P554621

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-96-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: P554621
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-LD4-2HI-30-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

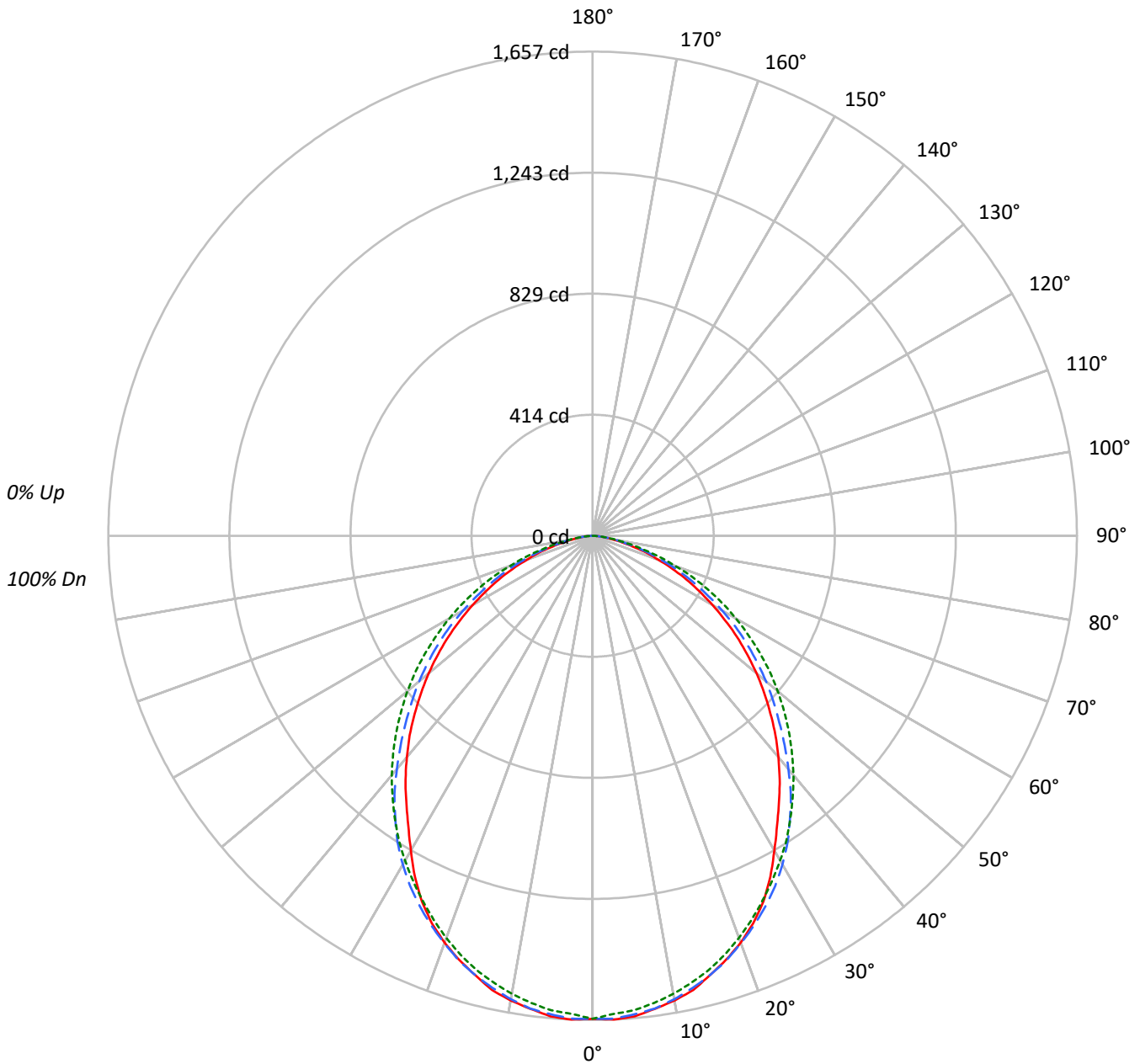
Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8896	8896	8896
5°	8920	8882	8807
10°	8825	8801	8700
15°	8669	8669	8569
20°	8485	8496	8387
25°	8206	8307	8175
30°	7727	8074	7975
35°	7301	7739	7751
40°	6946	7321	7513
45°	6549	6878	7231
50°	6131	6481	6923
55°	5654	6030	6549
60°	5092	5503	6090
65°	4497	4893	5540
70°	3747	4167	4707
75°	2944	3327	3685
80°	2104	2343	2597
85°	1371	1371	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	4.1
10°-20°	437.2	11.4
20°-30°	638.9	16.7
30°-40°	725.2	19.0
40°-50°	700.1	18.3
50°-60°	577.5	15.1
60°-70°	384.6	10.1
70°-80°	172.1	4.5
80°-90°	30.8	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°	1231.7	32.2
0°-40°	1956.9	51.2
0°-60°	3234.6	84.6
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1651	1650	1644	1635	1630	156
15°	1556	1560	1556	1549	1538	439
25°	1382	1393	1399	1389	1377	633
35°	1111	1126	1178	1184	1180	696
45°	860	875	904	945	950	664
55°	603	613	643	678	698	538
65°	353	363	384	412	435	350
75°	142	149	160	168	177	155
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.9	1652.9	1652.9	1652.9	1652.9
2.5°	1657.4	1658.0	1654.2	1644.0	1637.7
5°	1651.0	1650.4	1644.0	1635.1	1630.1
7.5°	1632.6	1633.9	1632.0	1619.3	1612.3
10°	1614.8	1615.5	1610.4	1600.2	1592.0
12.5°	1592.0	1591.3	1584.3	1579.3	1565.9
15°	1555.8	1559.6	1555.8	1548.8	1538.0
17.5°	1520.8	1520.8	1523.4	1511.3	1503.1
20°	1481.5	1483.4	1483.4	1473.8	1464.3
22.5°	1435.7	1441.5	1443.4	1433.2	1421.8
25°	1381.8	1392.6	1398.9	1388.8	1376.7
27.5°	1316.4	1332.9	1351.9	1344.3	1331.0
30°	1243.3	1267.5	1299.2	1292.9	1283.3
32.5°	1174.1	1198.3	1242.1	1239.5	1234.4
35°	1111.3	1126.5	1177.9	1184.3	1179.8
37.5°	1051.6	1065.5	1113.8	1128.4	1124.6
40°	988.7	1003.9	1042.0	1068.1	1069.3
42.5°	926.5	941.1	972.2	1009.7	1009.7
45°	860.4	875.0	903.6	944.9	950.0
47.5°	795.7	810.9	838.8	880.1	888.4
50°	732.2	746.1	774.1	814.1	826.8
52.5°	666.1	681.4	708.7	745.5	763.9
55°	602.6	612.8	642.6	678.2	697.9
57.5°	536.6	546.1	579.8	610.2	630.6
60°	473.1	485.1	511.2	542.3	565.8
62.5°	412.1	424.8	447.0	474.3	501.0
65°	353.1	362.6	384.2	411.5	435.0
67.5°	295.9	304.2	325.8	344.8	369.6
70°	238.1	248.9	264.8	283.2	299.1
72.5°	191.8	196.2	209.6	222.9	239.4
75°	141.6	149.2	160.0	167.6	177.2
77.5°	101.6	106.0	112.4	118.7	127.6
80°	67.9	69.9	75.6	76.8	83.8
82.5°	41.3	42.5	43.8	44.5	47.0
85°	22.2	22.2	22.2	21.0	21.0
87.5°	12.7	12.7	10.8	8.9	6.4
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)