

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: P554733

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-96-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: P554733
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-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

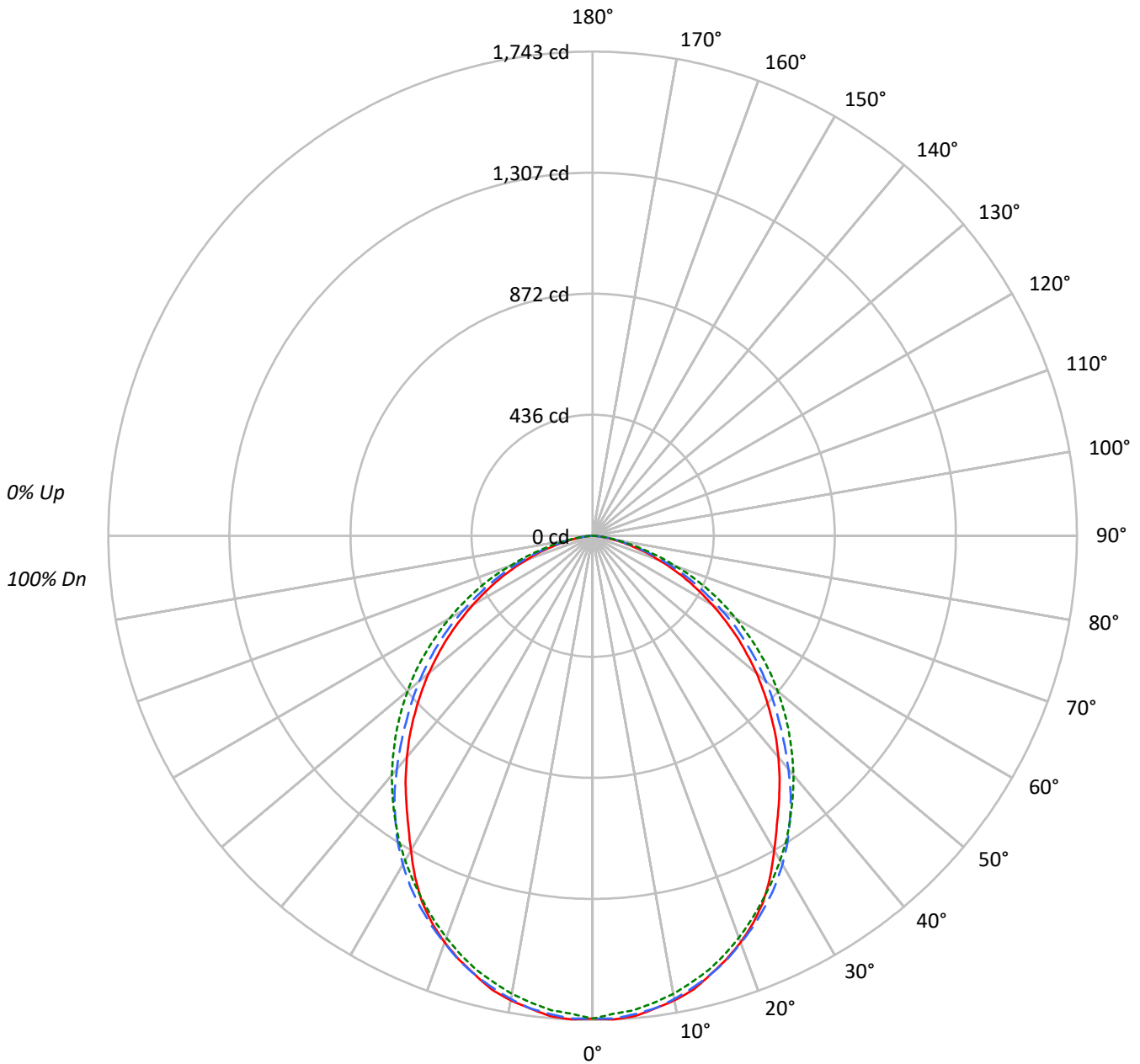
Lumens per Lamp: N/A
Luminaire Lumens: 4019.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	9354	9354	9354
5°	9379	9340	9260
10°	9280	9254	9148
15°	9115	9115	9011
20°	8922	8934	8819
25°	8628	8735	8596
30°	8125	8490	8387
35°	7677	8138	8152
40°	7305	7699	7900
45°	6887	7232	7603
50°	6446	6815	7279
55°	5946	6340	6885
60°	5355	5786	6405
65°	4728	5145	5825
70°	3940	4381	4949
75°	3096	3500	3874
80°	2213	2464	2731
85°	1445	1445	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	4.1
10°-20°	459.7	11.4
20°-30°	671.8	16.7
30°-40°	762.6	19.0
40°-50°	736.2	18.3
50°-60°	607.3	15.1
60°-70°	404.4	10.1
70°-80°	181.0	4.5
80°-90°	32.4	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°	1295.2	32.2
0°-40°	2057.8	51.2
0°-60°	3401.3	84.6
0°-90°	4019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1736	1735	1729	1719	1714	164
15°	1636	1640	1636	1629	1617	461
25°	1453	1464	1471	1460	1448	665
35°	1168	1185	1239	1245	1241	732
45°	905	920	950	994	999	698
55°	634	644	676	713	734	566
65°	371	381	404	433	457	368
75°	149	157	168	176	186	163
85°	23	23	23	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1742.8	1743.5	1739.4	1728.8	1722.1
5°	1736.1	1735.4	1728.8	1719.4	1714.1
7.5°	1716.7	1718.1	1716.1	1702.7	1695.4
10°	1698.0	1698.7	1693.4	1682.7	1674.0
12.5°	1674.0	1673.3	1666.0	1660.7	1646.6
15°	1636.0	1640.0	1636.0	1628.6	1617.3
17.5°	1599.2	1599.2	1601.9	1589.2	1580.5
20°	1557.8	1559.8	1559.8	1549.8	1539.8
22.5°	1509.7	1515.8	1517.8	1507.1	1495.1
25°	1453.0	1464.3	1471.0	1460.3	1447.6
27.5°	1384.2	1401.6	1421.6	1413.6	1399.6
30°	1307.4	1332.8	1366.2	1359.5	1349.5
32.5°	1234.6	1260.0	1306.1	1303.4	1298.1
35°	1168.5	1184.6	1238.6	1245.3	1240.7
37.5°	1105.8	1120.5	1171.2	1186.6	1182.6
40°	1039.7	1055.7	1095.8	1123.1	1124.5
42.5°	974.2	989.6	1022.3	1061.7	1061.7
45°	904.8	920.1	950.2	993.6	998.9
47.5°	836.7	852.7	882.1	925.5	934.2
50°	769.9	784.6	814.0	856.0	869.4
52.5°	700.5	716.5	745.2	783.9	803.3
55°	633.7	644.4	675.7	713.1	733.8
57.5°	564.2	574.3	609.6	641.7	663.1
60°	497.5	510.1	537.5	570.2	595.0
62.5°	433.4	446.7	470.1	498.8	526.8
65°	371.3	381.3	404.0	432.7	457.4
67.5°	311.2	319.8	342.5	362.6	388.6
70°	250.4	261.8	278.4	297.8	314.5
72.5°	201.7	206.3	220.4	234.4	251.7
75°	148.9	156.9	168.3	176.3	186.3
77.5°	106.8	111.5	118.2	124.9	134.2
80°	71.4	73.5	79.5	80.8	88.1
82.5°	43.4	44.7	46.1	46.7	49.4
85°	23.4	23.4	23.4	22.0	22.0
87.5°	13.4	13.4	11.4	9.3	6.7
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)