

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: P556028

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-96-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: P556028
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-LD4-3STD-40-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

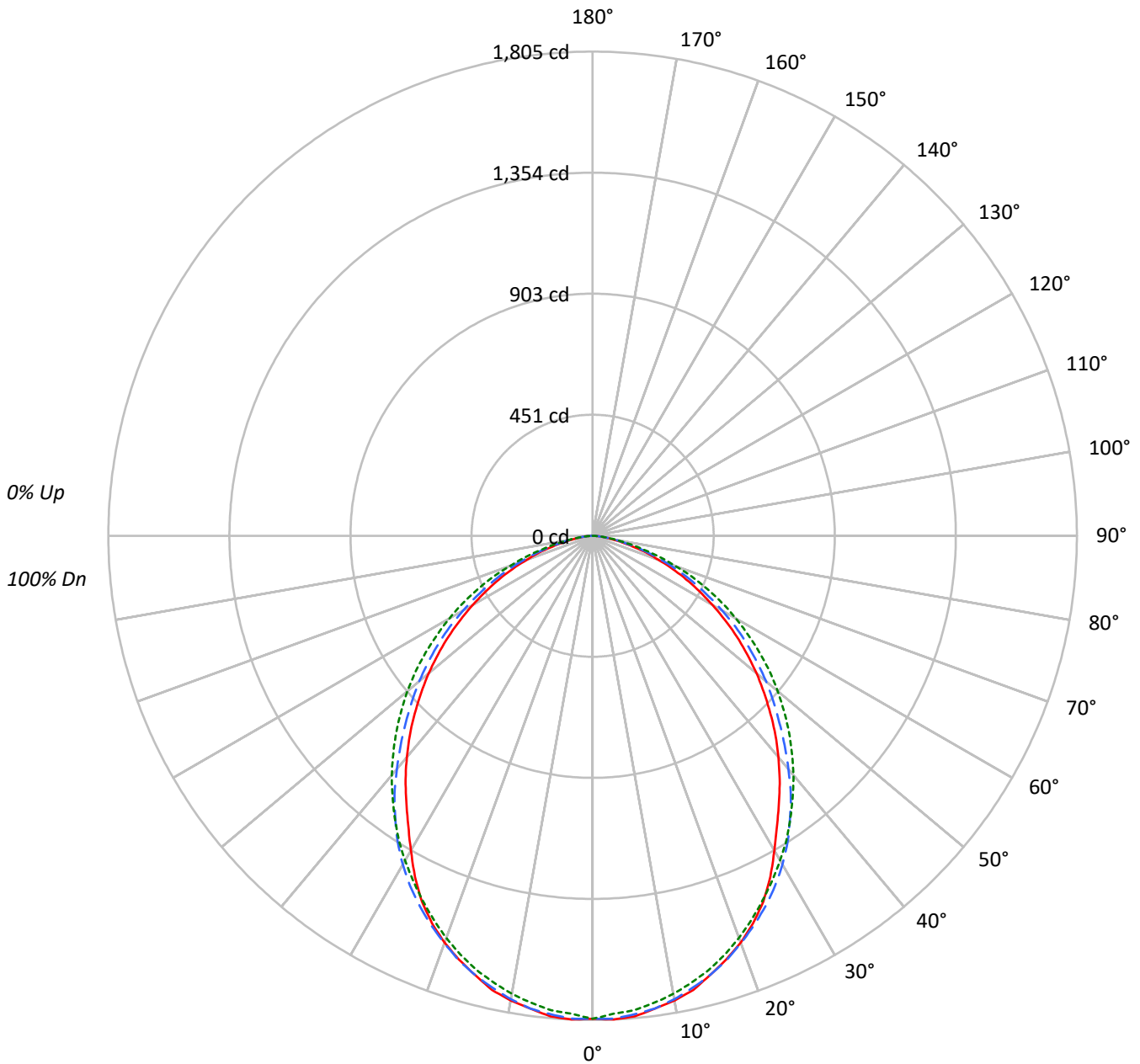
Lumens per Lamp: N/A
Luminaire Lumens: 4163.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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				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	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°	9690	9690	9690
5°	9715	9674	9592
10°	9612	9586	9476
15°	9442	9442	9334
20°	9242	9254	9135
25°	8938	9048	8905
30°	8416	8794	8687
35°	7953	8430	8443
40°	7566	7974	8183
45°	7133	7491	7875
50°	6677	7059	7540
55°	6159	6568	7132
60°	5547	5993	6634
65°	4898	5330	6034
70°	4082	4538	5127
75°	3206	3624	4013
80°	2294	2551	2830
85°	1494	1494	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	4.1
10°-20°	476.2	11.4
20°-30°	695.9	16.7
30°-40°	789.9	19.0
40°-50°	762.5	18.3
50°-60°	629.1	15.1
60°-70°	418.9	10.1
70°-80°	187.4	4.5
80°-90°	33.5	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°	1341.6	32.2
0°-40°	2131.5	51.2
0°-60°	3523.1	84.6
0°-90°	4163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1798	1798	1791	1781	1776	170
15°	1695	1699	1695	1687	1675	478
25°	1505	1517	1524	1513	1500	689
35°	1210	1227	1283	1290	1285	758
45°	937	953	984	1029	1035	723
55°	656	668	700	739	760	586
65°	385	395	418	448	474	381
75°	154	162	174	183	193	169
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1800.4	1800.4	1800.4	1800.4	1800.4
2.5°	1805.2	1805.9	1801.8	1790.7	1783.8
5°	1798.3	1797.6	1790.7	1781.0	1775.5
7.5°	1778.3	1779.6	1777.6	1763.7	1756.1
10°	1758.9	1759.6	1754.0	1743.0	1734.0
12.5°	1734.0	1733.3	1725.7	1720.2	1705.6
15°	1694.6	1698.7	1694.6	1687.0	1675.2
17.5°	1656.5	1656.5	1659.3	1646.1	1637.2
20°	1613.6	1615.7	1615.7	1605.3	1595.0
22.5°	1563.8	1570.1	1572.1	1561.1	1548.6
25°	1505.1	1516.8	1523.7	1512.7	1499.5
27.5°	1433.8	1451.8	1472.5	1464.2	1449.7
30°	1354.3	1380.6	1415.1	1408.2	1397.8
32.5°	1278.9	1305.2	1352.9	1350.1	1344.6
35°	1210.4	1227.0	1283.0	1289.9	1285.1
37.5°	1145.4	1160.6	1213.2	1229.1	1224.9
40°	1076.9	1093.5	1135.0	1163.4	1164.8
42.5°	1009.1	1025.0	1058.9	1099.7	1099.7
45°	937.2	953.1	984.2	1029.2	1034.7
47.5°	866.6	883.2	913.7	958.6	967.6
50°	797.5	812.7	843.1	886.7	900.5
52.5°	725.6	742.2	771.9	812.0	832.1
55°	656.4	667.5	700.0	738.7	760.1
57.5°	584.5	594.8	631.5	664.7	686.8
60°	515.3	528.4	556.8	590.7	616.3
62.5°	448.9	462.7	486.9	516.7	545.7
65°	384.6	394.9	418.5	448.2	473.8
67.5°	322.3	331.3	354.8	375.6	402.5
70°	259.4	271.1	288.4	308.5	325.8
72.5°	208.9	213.7	228.2	242.8	260.8
75°	154.2	162.5	174.3	182.6	193.0
77.5°	110.7	115.5	122.4	129.3	139.0
80°	74.0	76.1	82.3	83.7	91.3
82.5°	45.0	46.3	47.7	48.4	51.2
85°	24.2	24.2	24.2	22.8	22.8
87.5°	13.8	13.8	11.8	9.7	6.9
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)