

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: P555978

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-94-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: P555978
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-35-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

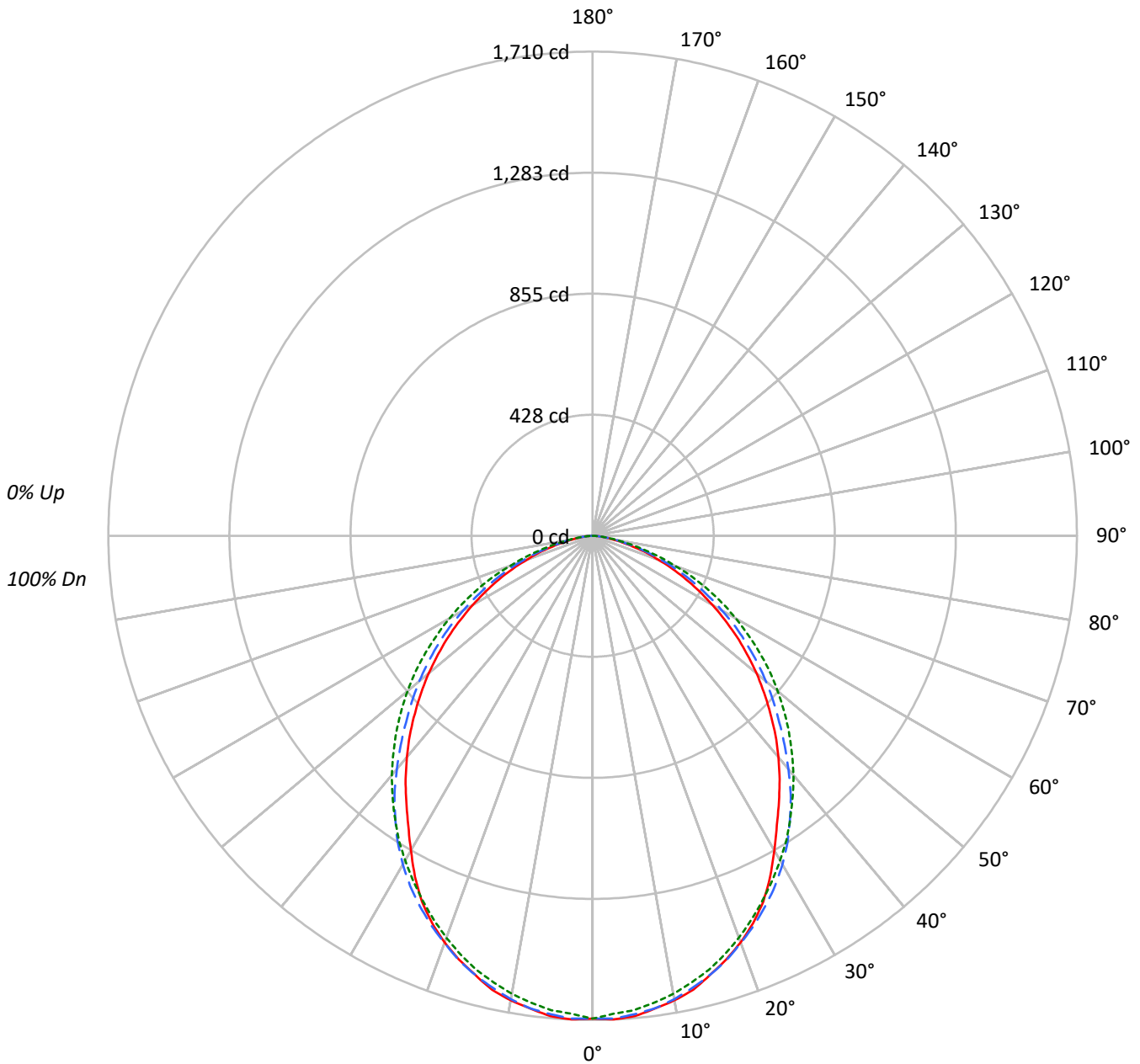
Lumens per Lamp: N/A
Luminaire Lumens: 3943.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	9177	9177	9177
5°	9202	9163	9085
10°	9104	9080	8976
15°	8943	8943	8841
20°	8754	8765	8652
25°	8465	8570	8434
30°	7971	8330	8228
35°	7532	7984	7997
40°	7166	7553	7751
45°	6756	7095	7459
50°	6324	6687	7142
55°	5834	6221	6756
60°	5254	5677	6283
65°	4638	5047	5714
70°	3866	4299	4856
75°	3038	3433	3801
80°	2173	2417	2681
85°	1414	1414	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	4.1
10°-20°	451.0	11.4
20°-30°	659.1	16.7
30°-40°	748.2	19.0
40°-50°	722.2	18.3
50°-60°	595.8	15.1
60°-70°	396.8	10.1
70°-80°	177.6	4.5
80°-90°	31.8	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°	1270.7	32.2
0°-40°	2018.9	51.2
0°-60°	3337.0	84.6
0°-90°	3943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1703	1703	1696	1687	1682	161
15°	1605	1609	1605	1598	1587	452
25°	1426	1437	1443	1433	1420	653
35°	1146	1162	1215	1222	1217	718
45°	888	903	932	975	980	685
55°	622	632	663	700	720	555
65°	364	374	396	424	449	361
75°	146	154	165	173	183	160
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.2	1705.2	1705.2	1705.2	1705.2
2.5°	1709.8	1710.5	1706.6	1696.1	1689.5
5°	1703.3	1702.6	1696.1	1686.9	1681.7
7.5°	1684.3	1685.6	1683.6	1670.5	1663.3
10°	1665.9	1666.6	1661.4	1650.9	1642.4
12.5°	1642.4	1641.7	1634.5	1629.3	1615.5
15°	1605.0	1608.9	1605.0	1597.8	1586.7
17.5°	1569.0	1569.0	1571.6	1559.2	1550.6
20°	1528.4	1530.3	1530.3	1520.5	1510.7
22.5°	1481.2	1487.1	1489.1	1478.6	1466.8
25°	1425.5	1436.7	1443.2	1432.7	1420.3
27.5°	1358.0	1375.1	1394.7	1386.9	1373.1
30°	1282.7	1307.6	1340.4	1333.8	1324.0
32.5°	1211.3	1236.2	1281.4	1278.8	1273.5
35°	1146.4	1162.2	1215.2	1221.8	1217.2
37.5°	1084.9	1099.3	1149.1	1164.1	1160.2
40°	1020.0	1035.7	1075.0	1101.9	1103.2
42.5°	955.8	970.9	1003.0	1041.6	1041.6
45°	887.7	902.7	932.2	974.8	980.0
47.5°	820.9	836.6	865.4	908.0	916.5
50°	755.3	769.8	798.6	839.8	853.0
52.5°	687.2	702.9	731.1	769.1	788.1
55°	621.7	632.2	663.0	699.7	720.0
57.5°	553.6	563.4	598.1	629.6	650.5
60°	488.1	500.5	527.4	559.5	583.7
62.5°	425.2	438.3	461.2	489.4	516.9
65°	364.2	374.1	396.3	424.5	448.7
67.5°	305.3	313.8	336.1	355.7	381.3
70°	245.7	256.8	273.2	292.2	308.6
72.5°	197.8	202.4	216.2	229.9	247.0
75°	146.1	154.0	165.1	172.9	182.8
77.5°	104.8	109.4	116.0	122.5	131.7
80°	70.1	72.1	78.0	79.3	86.5
82.5°	42.6	43.9	45.2	45.9	48.5
85°	22.9	22.9	22.9	21.6	21.6
87.5°	13.1	13.1	11.1	9.2	6.6
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)