

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: P556057

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-88-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: P556057
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

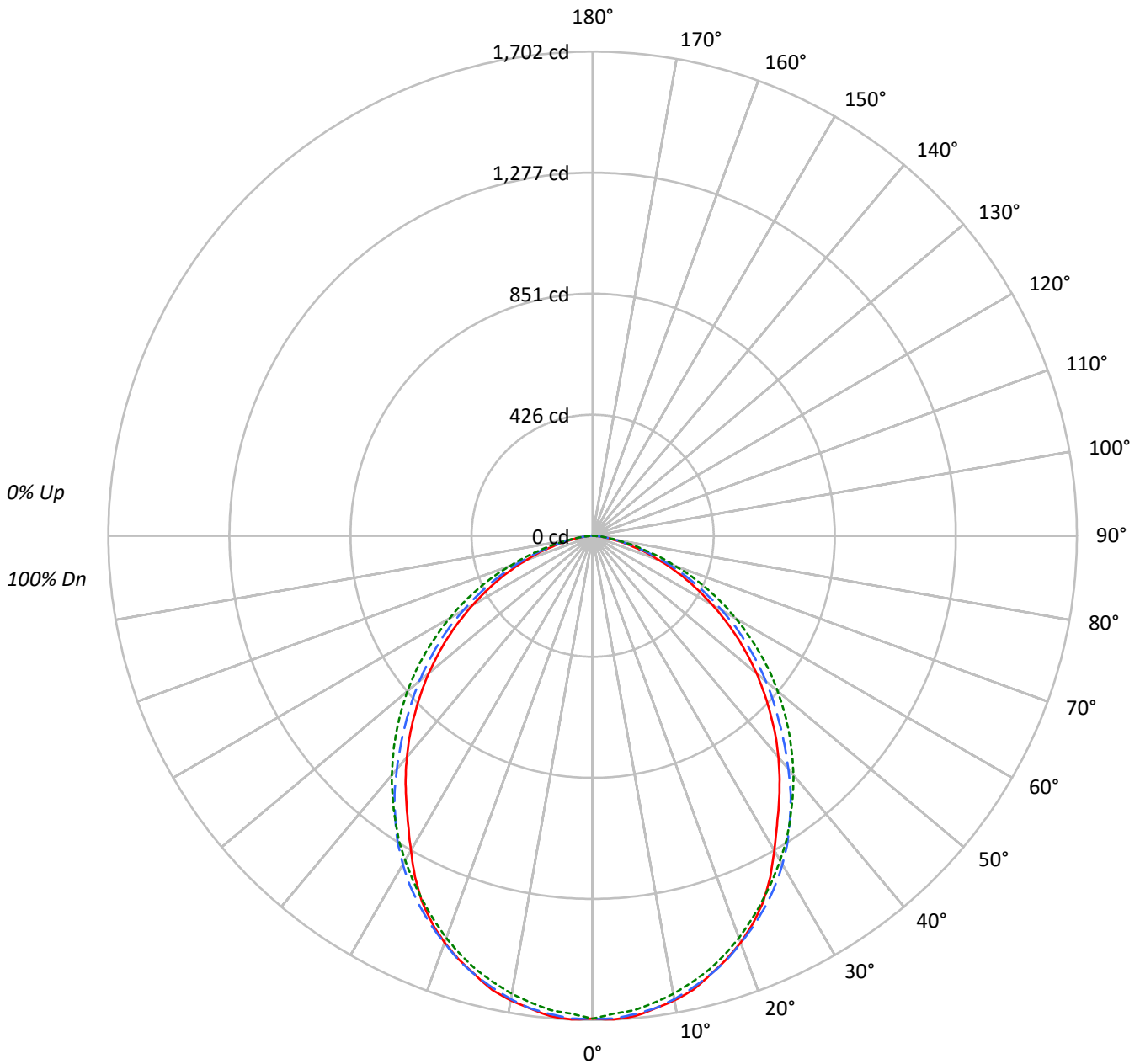
Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9136	9136	9136
5°	9160	9121	9044
10°	9063	9038	8935
15°	8902	8902	8800
20°	8714	8724	8613
25°	8426	8531	8396
30°	7935	8291	8190
35°	7498	7948	7960
40°	7133	7518	7716
45°	6725	7063	7426
50°	6296	6656	7109
55°	5807	6192	6725
60°	5229	5651	6254
65°	4618	5024	5689
70°	3847	4279	4832
75°	3023	3417	3782
80°	2163	2405	2669
85°	1408	1408	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	4.1
10°-20°	449.0	11.4
20°-30°	656.1	16.7
30°-40°	744.8	19.0
40°-50°	718.9	18.3
50°-60°	593.1	15.1
60°-70°	394.9	10.1
70°-80°	176.7	4.5
80°-90°	31.6	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°	1264.9	32.2
0°-40°	2009.7	51.2
0°-60°	3321.7	84.6
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1696	1695	1688	1679	1674	160
15°	1598	1602	1598	1590	1579	450
25°	1419	1430	1437	1426	1414	650
35°	1141	1157	1210	1216	1212	715
45°	884	899	928	970	976	682
55°	619	629	660	696	717	552
65°	363	372	394	423	447	360
75°	145	153	164	172	182	159
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°	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1702.0	1702.7	1698.8	1688.3	1681.8
5°	1695.5	1694.9	1688.3	1679.2	1674.0
7.5°	1676.6	1677.9	1675.9	1662.9	1655.7
10°	1658.3	1659.0	1653.8	1643.3	1634.9
12.5°	1634.9	1634.2	1627.0	1621.8	1608.1
15°	1597.7	1601.6	1597.7	1590.5	1579.4
17.5°	1561.8	1561.8	1564.4	1552.0	1543.6
20°	1521.4	1523.3	1523.3	1513.6	1503.8
22.5°	1474.4	1480.3	1482.3	1471.8	1460.1
25°	1419.0	1430.1	1436.6	1426.2	1413.8
27.5°	1351.8	1368.8	1388.4	1380.5	1366.8
30°	1276.8	1301.6	1334.2	1327.7	1317.9
32.5°	1205.8	1230.5	1275.5	1272.9	1267.7
35°	1141.2	1156.9	1209.7	1216.2	1211.6
37.5°	1079.9	1094.3	1143.8	1158.8	1154.9
40°	1015.3	1031.0	1070.1	1096.9	1098.2
42.5°	951.4	966.4	998.4	1036.9	1036.9
45°	883.6	898.6	928.0	970.4	975.6
47.5°	817.1	832.8	861.4	903.8	912.3
50°	751.9	766.2	794.9	836.0	849.1
52.5°	684.1	699.7	727.8	765.6	784.5
55°	618.9	629.3	659.9	696.5	716.7
57.5°	551.0	560.8	595.4	626.7	647.6
60°	485.8	498.2	525.0	556.9	581.0
62.5°	423.2	436.3	459.1	487.1	514.5
65°	362.6	372.4	394.5	422.6	446.7
67.5°	303.9	312.4	334.5	354.1	379.5
70°	244.5	255.6	271.9	290.8	307.1
72.5°	196.9	201.5	215.2	228.9	245.8
75°	145.4	153.2	164.3	172.2	181.9
77.5°	104.3	108.9	115.4	121.9	131.1
80°	69.8	71.7	77.6	78.9	86.1
82.5°	42.4	43.7	45.0	45.6	48.3
85°	22.8	22.8	22.8	21.5	21.5
87.5°	13.0	13.0	11.1	9.1	6.5
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)