

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: P556055

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-87-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: P556055
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-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

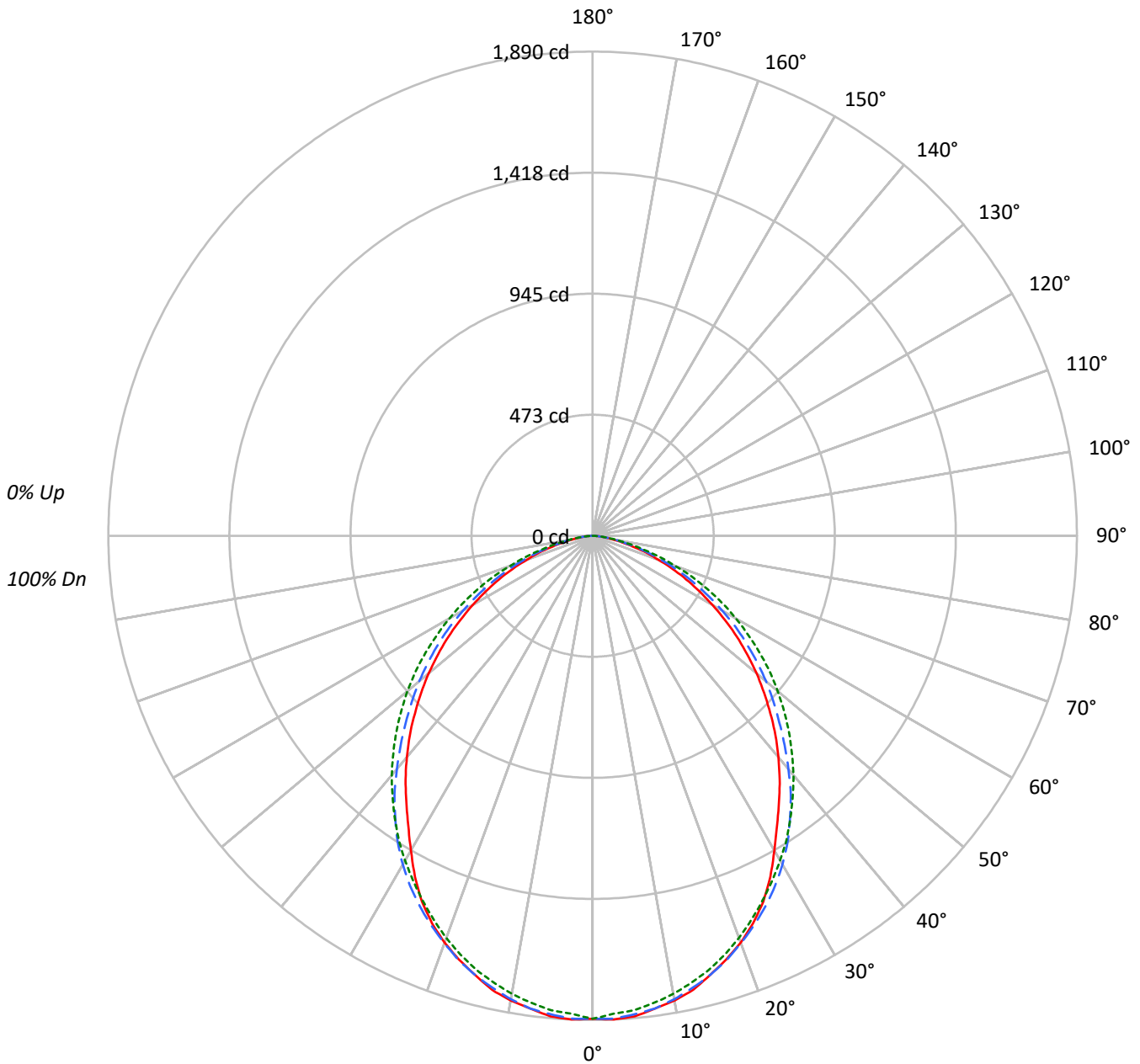
Lumens per Lamp: N/A
Luminaire Lumens: 4359.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10146	10146	10146
5°	10173	10130	10044
10°	10065	10037	9922
15°	9886	9886	9774
20°	9677	9690	9565
25°	9358	9475	9324
30°	8812	9209	9096
35°	8327	8826	8841
40°	7922	8350	8568
45°	7469	7844	8246
50°	6991	7392	7895
55°	6449	6877	7468
60°	5807	6275	6946
65°	5128	5580	6318
70°	4274	4752	5367
75°	3358	3795	4203
80°	2402	2672	2963
85°	1562	1562	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	4.1
10°-20°	498.6	11.4
20°-30°	728.7	16.7
30°-40°	827.1	19.0
40°-50°	798.4	18.3
50°-60°	658.7	15.1
60°-70°	438.6	10.1
70°-80°	196.3	4.5
80°-90°	35.1	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°	1404.8	32.2
0°-40°	2231.9	51.2
0°-60°	3689.0	84.6
0°-90°	4359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1883	1882	1875	1865	1859	178
15°	1774	1779	1774	1766	1754	500
25°	1576	1588	1596	1584	1570	722
35°	1267	1285	1343	1351	1346	794
45°	981	998	1031	1078	1083	757
55°	687	699	733	774	796	613
65°	403	414	438	469	496	399
75°	162	170	182	191	202	177
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.2	1885.2	1885.2	1885.2	1885.2
2.5°	1890.2	1890.9	1886.6	1875.0	1867.8
5°	1883.0	1882.3	1875.0	1864.9	1859.1
7.5°	1862.0	1863.4	1861.3	1846.8	1838.8
10°	1841.7	1842.4	1836.6	1825.0	1815.6
12.5°	1815.6	1814.9	1806.9	1801.1	1785.9
15°	1774.3	1778.7	1774.3	1766.4	1754.1
17.5°	1734.5	1734.5	1737.4	1723.7	1714.2
20°	1689.6	1691.8	1691.8	1680.9	1670.1
22.5°	1637.5	1644.0	1646.2	1634.6	1621.5
25°	1575.9	1588.2	1595.5	1583.9	1570.1
27.5°	1501.3	1520.1	1541.9	1533.2	1518.0
30°	1418.0	1445.6	1481.8	1474.5	1463.7
32.5°	1339.1	1366.6	1416.6	1413.7	1407.9
35°	1267.4	1284.8	1343.4	1350.7	1345.6
37.5°	1199.3	1215.2	1270.3	1286.9	1282.6
40°	1127.6	1145.0	1188.5	1218.1	1219.6
42.5°	1056.6	1073.3	1108.8	1151.5	1151.5
45°	981.3	998.0	1030.6	1077.6	1083.4
47.5°	907.5	924.8	956.7	1003.8	1013.2
50°	835.0	851.0	882.8	928.5	942.9
52.5°	759.7	777.1	808.2	850.2	871.2
55°	687.3	698.9	732.9	773.5	795.9
57.5°	612.0	622.8	661.2	696.0	719.2
60°	539.5	553.3	583.0	618.5	645.3
62.5°	470.0	484.5	509.9	541.0	571.4
65°	402.7	413.5	438.2	469.3	496.1
67.5°	337.5	346.9	371.5	393.3	421.5
70°	271.6	283.9	302.0	323.0	341.1
72.5°	218.7	223.8	239.0	254.2	273.0
75°	161.5	170.2	182.5	191.2	202.1
77.5°	115.9	120.9	128.2	135.4	145.6
80°	77.5	79.7	86.2	87.6	95.6
82.5°	47.1	48.5	50.0	50.7	53.6
85°	25.3	25.3	25.3	23.9	23.9
87.5°	14.5	14.5	12.3	10.1	7.2
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)