

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: P555991

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-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: P555991
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-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

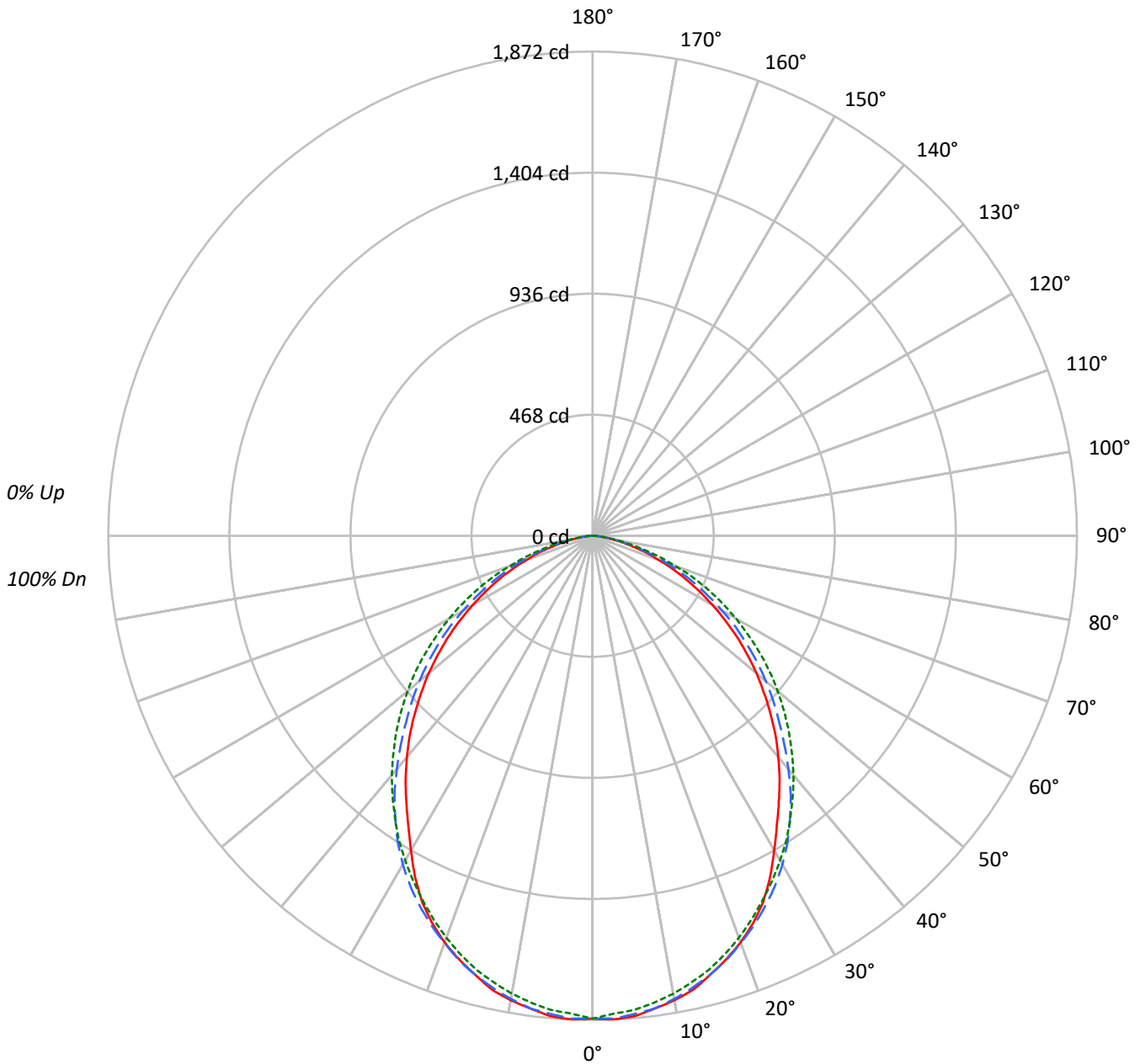
Lumens per Lamp: N/A
Luminaire Lumens: 4316.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	10046	10046	10046
5°	10072	10030	9944
10°	9965	9938	9824
15°	9789	9789	9677
20°	9581	9594	9471
25°	9266	9381	9232
30°	8725	9117	9006
35°	8245	8740	8753
40°	7844	8267	8484
45°	7395	7767	8165
50°	6923	7319	7817
55°	6385	6809	7395
60°	5750	6213	6877
65°	5077	5524	6255
70°	4231	4705	5314
75°	3325	3758	4161
80°	2377	2644	2935
85°	1550	1550	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	4.1
10°-20°	493.7	11.4
20°-30°	721.5	16.7
30°-40°	819.0	19.0
40°-50°	790.6	18.3
50°-60°	652.2	15.1
60°-70°	434.3	10.1
70°-80°	194.3	4.5
80°-90°	34.8	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°	1390.9	32.2
0°-40°	2209.9	51.2
0°-60°	3652.6	84.6
0°-90°	4316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1864	1864	1856	1846	1841	176
15°	1757	1761	1757	1749	1737	495
25°	1560	1573	1580	1568	1555	715
35°	1255	1272	1330	1337	1332	786
45°	972	988	1020	1067	1073	750
55°	680	692	726	766	788	607
65°	399	410	434	465	491	395
75°	160	168	181	189	200	175
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°	1866.6	1866.6	1866.6	1866.6	1866.6
2.5°	1871.6	1872.3	1868.0	1856.5	1849.3
5°	1864.4	1863.7	1856.5	1846.5	1840.7
7.5°	1843.6	1845.0	1842.9	1828.6	1820.7
10°	1823.5	1824.3	1818.5	1807.0	1797.7
12.5°	1797.7	1797.0	1789.1	1783.4	1768.3
15°	1756.8	1761.1	1756.8	1749.0	1736.8
17.5°	1717.4	1717.4	1720.3	1706.6	1697.3
20°	1672.9	1675.1	1675.1	1664.3	1653.6
22.5°	1621.3	1627.8	1629.9	1618.4	1605.5
25°	1560.4	1572.6	1579.7	1568.3	1554.6
27.5°	1486.5	1505.2	1526.7	1518.1	1503.0
30°	1404.0	1431.3	1467.1	1460.0	1449.2
32.5°	1325.9	1353.1	1402.6	1399.7	1394.0
35°	1254.9	1272.1	1330.2	1337.4	1332.3
37.5°	1187.5	1203.3	1257.8	1274.3	1269.9
40°	1116.5	1133.7	1176.7	1206.1	1207.6
42.5°	1046.2	1062.7	1097.8	1140.2	1140.2
45°	971.6	988.1	1020.4	1067.0	1072.8
47.5°	898.5	915.7	947.3	993.9	1003.2
50°	826.8	842.6	874.1	919.3	933.6
52.5°	752.2	769.4	800.3	841.9	862.6
55°	680.5	692.0	725.7	765.8	788.1
57.5°	605.9	616.7	654.7	689.1	712.1
60°	534.2	547.8	577.2	612.4	638.9
62.5°	465.4	479.7	504.8	535.7	565.8
65°	398.7	409.5	433.8	464.7	491.2
67.5°	334.2	343.5	367.9	389.4	417.3
70°	268.9	281.1	299.0	319.8	337.7
72.5°	216.6	221.6	236.6	251.7	270.3
75°	159.9	168.5	180.7	189.3	200.1
77.5°	114.7	119.8	126.9	134.1	144.1
80°	76.7	78.9	85.3	86.8	94.7
82.5°	46.6	48.0	49.5	50.2	53.1
85°	25.1	25.1	25.1	23.7	23.7
87.5°	14.3	14.3	12.2	10.0	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)