

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: P555530

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555530
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-LD4-3HI-40-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 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

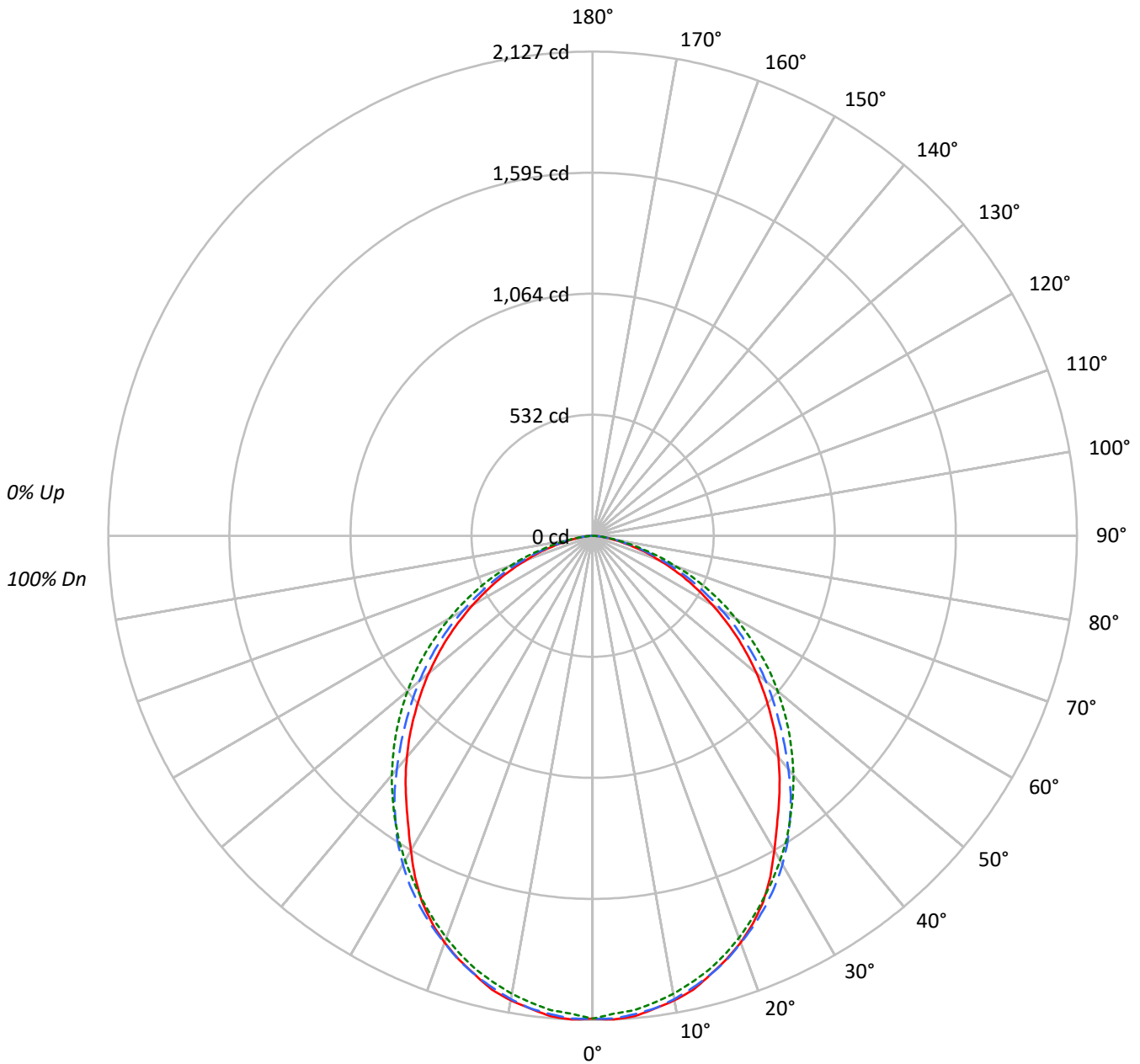
Lumens per Lamp: N/A
Luminaire Lumens: 4905.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	11417	11417	11417
5°	11447	11399	11302
10°	11326	11294	11166
15°	11125	11125	10998
20°	10889	10903	10763
25°	10530	10661	10492
30°	9917	10362	10235
35°	9370	9932	9949
40°	8915	9395	9642
45°	8404	8827	9279
50°	7867	8318	8884
55°	7257	7738	8404
60°	6535	7061	7816
65°	5770	6278	7109
70°	4809	5347	6039
75°	3778	4271	4729
80°	2703	3006	3335
85°	1760	1760	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	4.1
10°-20°	561.1	11.4
20°-30°	819.9	16.7
30°-40°	930.7	19.0
40°-50°	898.5	18.3
50°-60°	741.2	15.1
60°-70°	493.6	10.1
70°-80°	220.8	4.5
80°-90°	39.5	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°	1580.7	32.2
0°-40°	2511.5	51.2
0°-60°	4151.1	84.6
0°-90°	4905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2119	2118	2110	2098	2092	201
15°	1997	2002	1997	1988	1974	563
25°	1773	1787	1795	1782	1767	812
35°	1426	1446	1512	1520	1514	894
45°	1104	1123	1160	1213	1219	852
55°	773	786	825	870	896	690
65°	453	465	493	528	558	449
75°	182	192	205	215	227	199
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.3	2121.3	2121.3	2121.3	2121.3
2.5°	2127.0	2127.8	2122.9	2109.9	2101.7
5°	2118.8	2118.0	2109.9	2098.5	2091.9
7.5°	2095.2	2096.8	2094.4	2078.1	2069.1
10°	2072.4	2073.2	2066.7	2053.6	2043.1
12.5°	2043.1	2042.2	2033.3	2026.8	2009.6
15°	1996.6	2001.5	1996.6	1987.6	1973.8
17.5°	1951.8	1951.8	1955.0	1939.6	1929.0
20°	1901.3	1903.7	1903.7	1891.5	1879.2
22.5°	1842.6	1849.9	1852.4	1839.3	1824.6
25°	1773.3	1787.2	1795.3	1782.3	1766.8
27.5°	1689.4	1710.6	1735.0	1725.2	1708.1
30°	1595.7	1626.6	1667.4	1659.2	1647.0
32.5°	1506.8	1537.8	1594.0	1590.8	1584.2
35°	1426.1	1445.7	1511.7	1519.9	1514.2
37.5°	1349.5	1367.5	1429.4	1448.1	1443.3
40°	1268.9	1288.4	1337.3	1370.7	1372.4
42.5°	1189.0	1207.7	1247.7	1295.8	1295.8
45°	1104.2	1123.0	1159.7	1212.6	1219.1
47.5°	1021.1	1040.7	1076.5	1129.5	1140.1
50°	939.6	957.6	993.4	1044.8	1061.1
52.5°	854.9	874.4	909.5	956.7	980.4
55°	773.4	786.4	824.7	870.4	895.6
57.5°	688.6	700.8	744.0	783.2	809.2
60°	607.1	622.6	656.0	696.0	726.1
62.5°	528.9	545.2	573.7	608.8	643.0
65°	453.1	465.3	493.0	528.1	558.2
67.5°	379.8	390.4	418.1	442.5	474.3
70°	305.6	319.5	339.8	363.5	383.8
72.5°	246.1	251.8	268.9	286.0	307.2
75°	181.7	191.5	205.4	215.1	227.4
77.5°	130.4	136.1	144.2	152.4	163.8
80°	87.2	89.6	97.0	98.6	107.6
82.5°	53.0	54.6	56.2	57.0	60.3
85°	28.5	28.5	28.5	26.9	26.9
87.5°	16.3	16.3	13.9	11.4	8.1
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)