

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: P555975

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-87-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: P555975
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

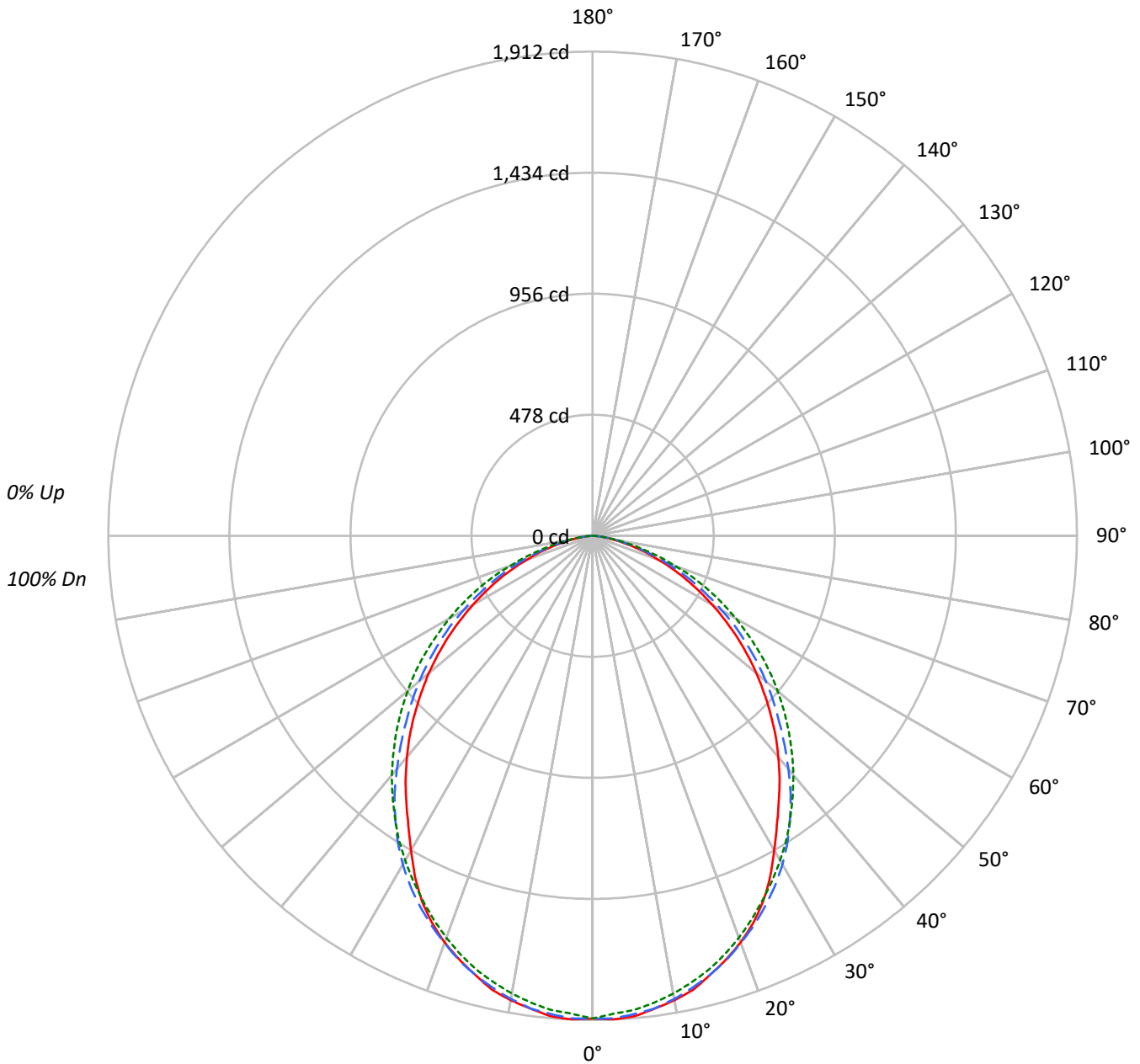
Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10260	10260	10260
5°	10287	10244	10157
10°	10178	10150	10034
15°	9998	9998	9883
20°	9786	9798	9672
25°	9463	9581	9429
30°	8912	9312	9198
35°	8420	8926	8940
40°	8011	8443	8665
45°	7553	7932	8339
50°	7070	7475	7984
55°	6521	6955	7553
60°	5873	6346	7023
65°	5186	5643	6389
70°	4321	4806	5427
75°	3396	3839	4248
80°	2430	2703	2997
85°	1581	1581	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	4.1
10°-20°	504.2	11.4
20°-30°	736.9	16.7
30°-40°	836.4	19.0
40°-50°	807.4	18.3
50°-60°	666.1	15.1
60°-70°	443.6	10.1
70°-80°	198.5	4.5
80°-90°	35.5	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°	1420.6	32.2
0°-40°	2257.0	51.2
0°-60°	3730.5	84.6
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1904	1903	1896	1886	1880	180
15°	1794	1799	1794	1786	1774	506
25°	1594	1606	1613	1602	1588	730
35°	1282	1299	1358	1366	1361	803
45°	992	1009	1042	1090	1096	766
55°	695	707	741	782	805	620
65°	407	418	443	475	502	404
75°	163	172	185	193	204	179
85°	26	26	26	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.3	1906.3	1906.3	1906.3	1906.3
2.5°	1911.5	1912.2	1907.8	1896.1	1888.8
5°	1904.1	1903.4	1896.1	1885.8	1880.0
7.5°	1882.9	1884.4	1882.2	1867.5	1859.5
10°	1862.4	1863.1	1857.3	1845.6	1836.0
12.5°	1836.0	1835.3	1827.3	1821.4	1806.0
15°	1794.3	1798.7	1794.3	1786.2	1773.8
17.5°	1754.0	1754.0	1756.9	1743.0	1733.5
20°	1708.6	1710.8	1710.8	1699.8	1688.8
22.5°	1655.9	1662.5	1664.7	1652.9	1639.8
25°	1593.6	1606.1	1613.4	1601.7	1587.8
27.5°	1518.2	1537.2	1559.2	1550.4	1535.0
30°	1434.0	1461.8	1498.4	1491.1	1480.1
32.5°	1354.1	1382.0	1432.5	1429.6	1423.7
35°	1281.6	1299.2	1358.5	1365.9	1360.7
37.5°	1212.8	1228.9	1284.6	1301.4	1297.0
40°	1140.3	1157.9	1201.8	1231.8	1233.3
42.5°	1068.5	1085.4	1121.3	1164.5	1164.5
45°	992.4	1009.2	1042.2	1089.8	1095.6
47.5°	917.7	935.2	967.5	1015.1	1024.6
50°	844.4	860.5	892.8	938.9	953.5
52.5°	768.3	785.8	817.3	859.8	881.0
55°	695.0	706.7	741.2	782.2	804.9
57.5°	618.8	629.8	668.6	703.8	727.2
60°	545.6	559.5	589.6	625.4	652.5
62.5°	475.3	490.0	515.6	547.1	577.8
65°	407.2	418.2	443.1	474.6	501.7
67.5°	341.3	350.8	375.7	397.7	426.2
70°	274.6	287.1	305.4	326.6	344.9
72.5°	221.2	226.3	241.7	257.1	276.1
75°	163.3	172.1	184.6	193.3	204.3
77.5°	117.2	122.3	129.6	137.0	147.2
80°	78.4	80.6	87.2	88.6	96.7
82.5°	47.6	49.1	50.5	51.3	54.2
85°	25.6	25.6	25.6	24.2	24.2
87.5°	14.6	14.6	12.5	10.3	7.3
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)