

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: P556119

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-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: P556119
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

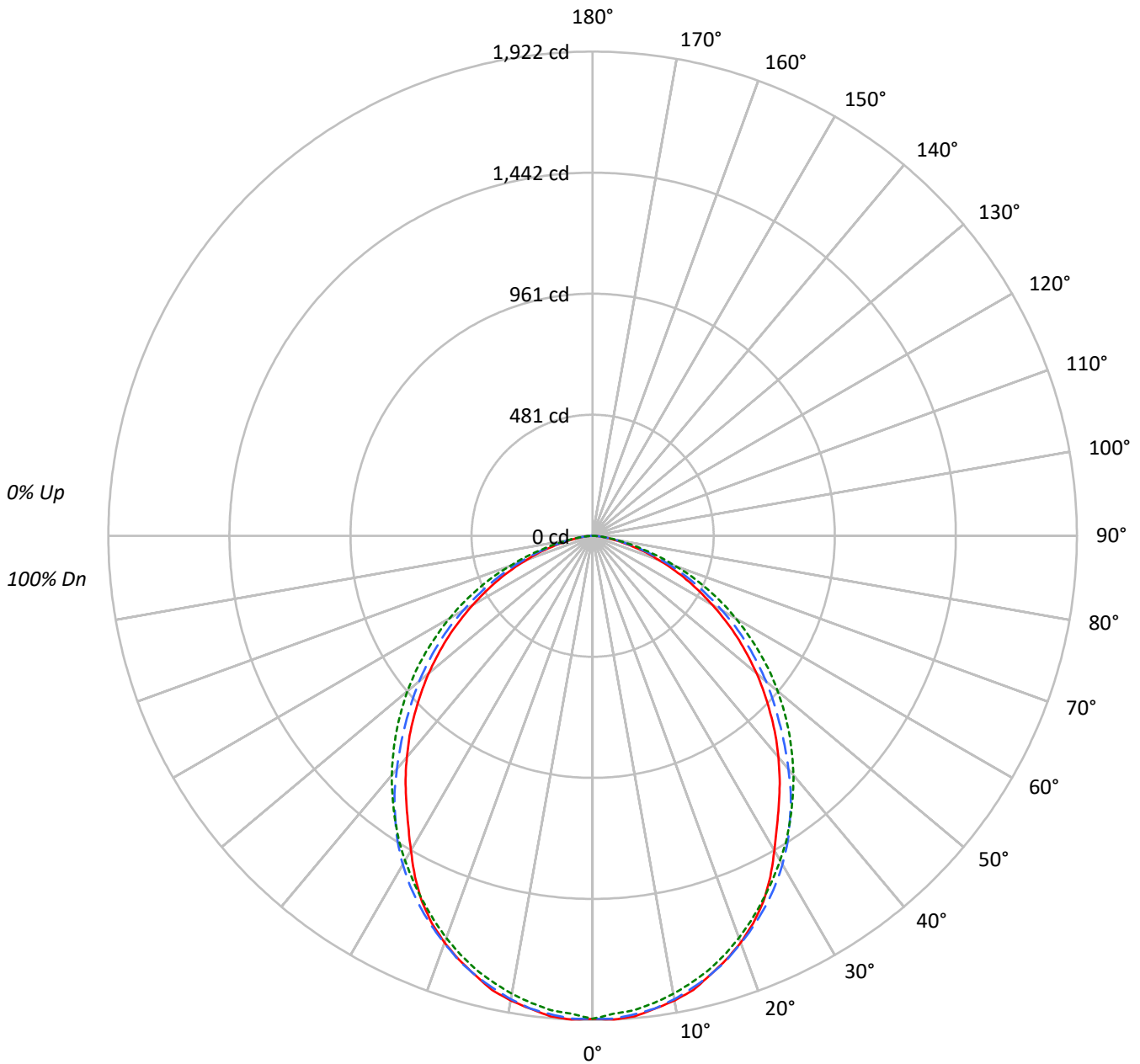
Lumens per Lamp: N/A
Luminaire Lumens: 4433.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	10318	10318	10318
5°	10345	10302	10214
10°	10236	10207	10091
15°	10054	10054	9939
20°	9841	9854	9727
25°	9517	9636	9482
30°	8962	9365	9250
35°	8468	8976	8991
40°	8057	8491	8714
45°	7596	7977	8386
50°	7110	7517	8029
55°	6559	6994	7595
60°	5906	6382	7063
65°	5215	5675	6425
70°	4346	4832	5459
75°	3414	3859	4273
80°	2442	2715	3013
85°	1593	1593	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	4.1
10°-20°	507.1	11.4
20°-30°	741.0	16.7
30°-40°	841.2	19.0
40°-50°	812.0	18.3
50°-60°	669.8	15.1
60°-70°	446.1	10.1
70°-80°	199.6	4.5
80°-90°	35.7	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°	1428.6	32.2
0°-40°	2269.8	51.2
0°-60°	3751.6	84.6
0°-90°	4433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1915	1914	1907	1896	1891	181
15°	1804	1809	1804	1796	1784	509
25°	1603	1615	1623	1611	1597	734
35°	1289	1307	1366	1374	1368	808
45°	998	1015	1048	1096	1102	770
55°	699	711	745	787	809	624
65°	410	421	446	477	504	406
75°	164	173	186	194	206	180
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°	1917.2	1917.2	1917.2	1917.2	1917.2
2.5°	1922.3	1923.1	1918.6	1906.8	1899.5
5°	1914.9	1914.2	1906.8	1896.5	1890.6
7.5°	1893.6	1895.1	1892.9	1878.1	1870.0
10°	1873.0	1873.7	1867.8	1856.0	1846.5
12.5°	1846.5	1845.7	1837.6	1831.7	1816.3
15°	1804.5	1808.9	1804.5	1796.4	1783.8
17.5°	1764.0	1764.0	1766.9	1752.9	1743.3
20°	1718.3	1720.5	1720.5	1709.5	1698.4
22.5°	1665.3	1671.9	1674.1	1662.3	1649.1
25°	1602.7	1615.2	1622.6	1610.8	1596.8
27.5°	1526.8	1546.0	1568.0	1559.2	1543.7
30°	1442.1	1470.1	1506.9	1499.6	1488.5
32.5°	1361.8	1389.8	1440.6	1437.7	1431.8
35°	1288.9	1306.6	1366.2	1373.6	1368.5
37.5°	1219.7	1235.9	1291.9	1308.8	1304.4
40°	1146.8	1164.4	1208.6	1238.8	1240.3
42.5°	1074.6	1091.5	1127.6	1171.1	1171.1
45°	998.0	1014.9	1048.1	1095.9	1101.8
47.5°	922.9	940.5	972.9	1020.8	1030.4
50°	849.2	865.4	897.8	944.2	958.9
52.5°	772.6	790.3	822.0	864.7	886.0
55°	699.0	710.7	745.4	786.6	809.4
57.5°	622.4	633.4	672.4	707.8	731.4
60°	548.7	562.7	592.9	629.0	656.2
62.5°	478.0	492.7	518.5	550.2	581.1
65°	409.5	420.6	445.6	477.3	504.5
67.5°	343.2	352.8	377.8	399.9	428.7
70°	276.2	288.7	307.1	328.5	346.9
72.5°	222.4	227.6	243.1	258.5	277.7
75°	164.2	173.1	185.6	194.4	205.5
77.5°	117.8	123.0	130.4	137.7	148.0
80°	78.8	81.0	87.6	89.1	97.2
82.5°	47.9	49.3	50.8	51.6	54.5
85°	25.8	25.8	25.8	24.3	24.3
87.5°	14.7	14.7	12.5	10.3	7.4
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)