

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: P556045

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-81-96-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: P556045
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

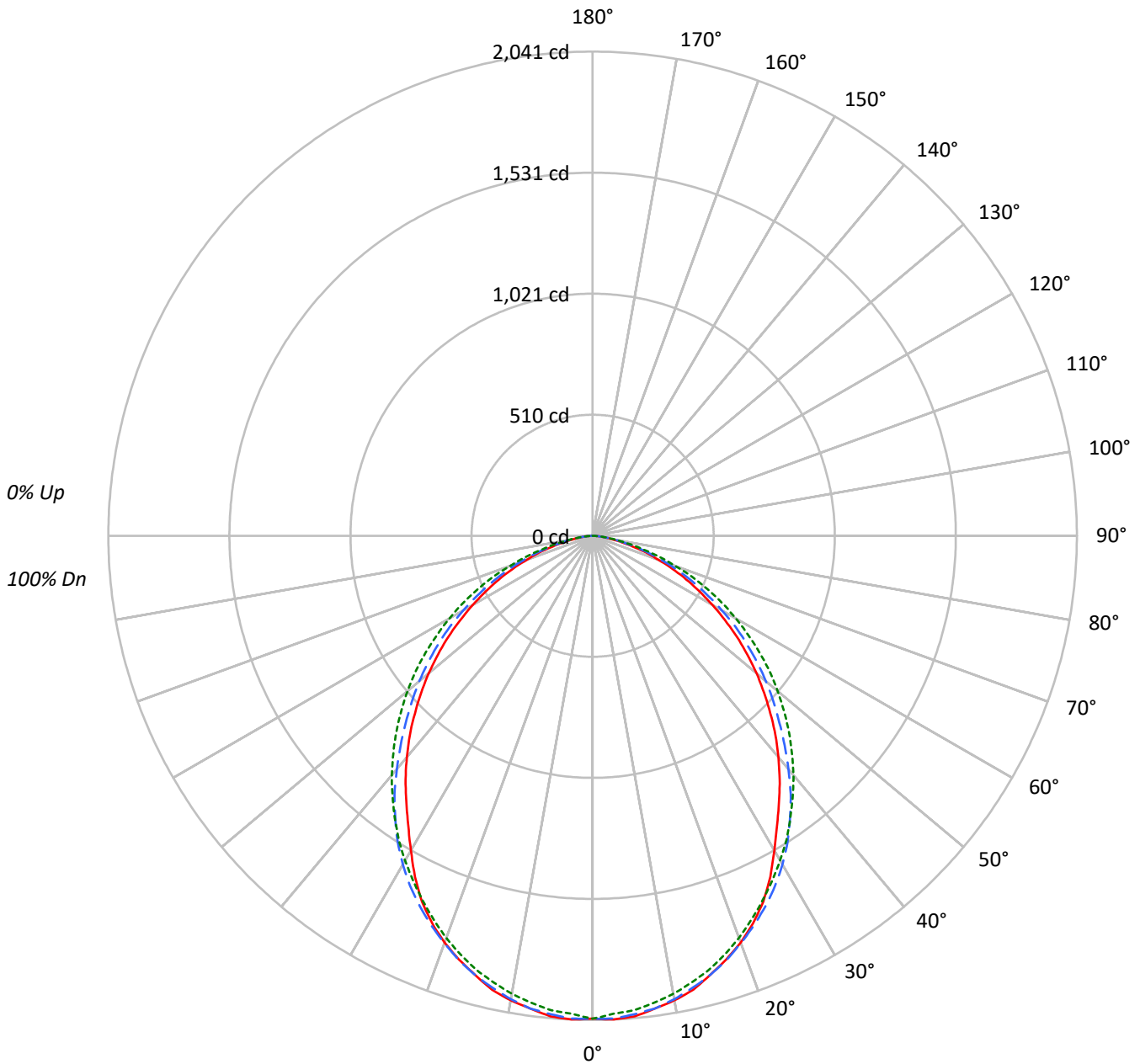
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	10956	10956	10956
5°	10985	10938	10846
10°	10868	10839	10715
15°	10676	10676	10554
20°	10450	10463	10329
25°	10105	10231	10068
30°	9516	9944	9822
35°	8992	9531	9546
40°	8554	9016	9253
45°	8066	8470	8904
50°	7550	7982	8525
55°	6964	7426	8065
60°	6271	6776	7500
65°	5537	6025	6822
70°	4615	5131	5795
75°	3627	4099	4537
80°	2594	2885	3199
85°	1692	1692	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	4.1
10°-20°	538.4	11.4
20°-30°	786.8	16.7
30°-40°	893.1	19.0
40°-50°	862.2	18.3
50°-60°	711.2	15.1
60°-70°	473.6	10.1
70°-80°	212.0	4.5
80°-90°	37.9	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°	1516.9	32.2
0°-40°	2410.1	51.2
0°-60°	3983.5	84.6
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2033	2032	2025	2014	2008	192
15°	1916	1921	1916	1907	1894	540
25°	1702	1715	1723	1710	1696	779
35°	1369	1387	1451	1458	1453	857
45°	1060	1078	1113	1164	1170	818
55°	742	755	791	835	860	662
65°	435	446	473	507	536	431
75°	174	184	197	206	218	191
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2035.7	2035.7	2035.7	2035.7	2035.7
2.5°	2041.1	2041.9	2037.2	2024.7	2016.9
5°	2033.3	2032.5	2024.7	2013.8	2007.5
7.5°	2010.6	2012.2	2009.8	1994.2	1985.6
10°	1988.7	1989.5	1983.3	1970.7	1960.6
12.5°	1960.6	1959.8	1951.2	1944.9	1928.5
15°	1916.0	1920.7	1916.0	1907.4	1894.1
17.5°	1873.0	1873.0	1876.1	1861.3	1851.1
20°	1824.5	1826.9	1826.9	1815.1	1803.4
22.5°	1768.2	1775.2	1777.6	1765.1	1751.0
25°	1701.7	1715.0	1722.8	1710.3	1695.5
27.5°	1621.2	1641.5	1665.0	1655.6	1639.2
30°	1531.2	1561.0	1600.1	1592.2	1580.5
32.5°	1446.0	1475.7	1529.7	1526.5	1520.3
35°	1368.6	1387.3	1450.7	1458.5	1453.0
37.5°	1295.1	1312.3	1371.7	1389.7	1385.0
40°	1217.6	1236.4	1283.3	1315.4	1317.0
42.5°	1141.0	1159.0	1197.3	1243.4	1243.4
45°	1059.7	1077.7	1112.8	1163.7	1169.9
47.5°	979.9	998.7	1033.1	1083.9	1094.1
50°	901.7	918.9	953.3	1002.6	1018.2
52.5°	820.4	839.1	872.8	918.1	940.8
55°	742.2	754.7	791.4	835.2	859.5
57.5°	660.8	672.6	714.0	751.5	776.6
60°	582.6	597.5	629.5	667.9	696.8
62.5°	507.5	523.2	550.6	584.2	617.0
65°	434.8	446.5	473.1	506.8	535.7
67.5°	364.4	374.6	401.2	424.6	455.1
70°	293.3	306.6	326.1	348.8	368.3
72.5°	236.2	241.7	258.1	274.5	294.8
75°	174.4	183.8	197.1	206.5	218.2
77.5°	125.1	130.6	138.4	146.2	157.2
80°	83.7	86.0	93.1	94.6	103.2
82.5°	50.8	52.4	54.0	54.7	57.9
85°	27.4	27.4	27.4	25.8	25.8
87.5°	15.6	15.6	13.3	10.9	7.8
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)