

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: P555624

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-88-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: P555624
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-50-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

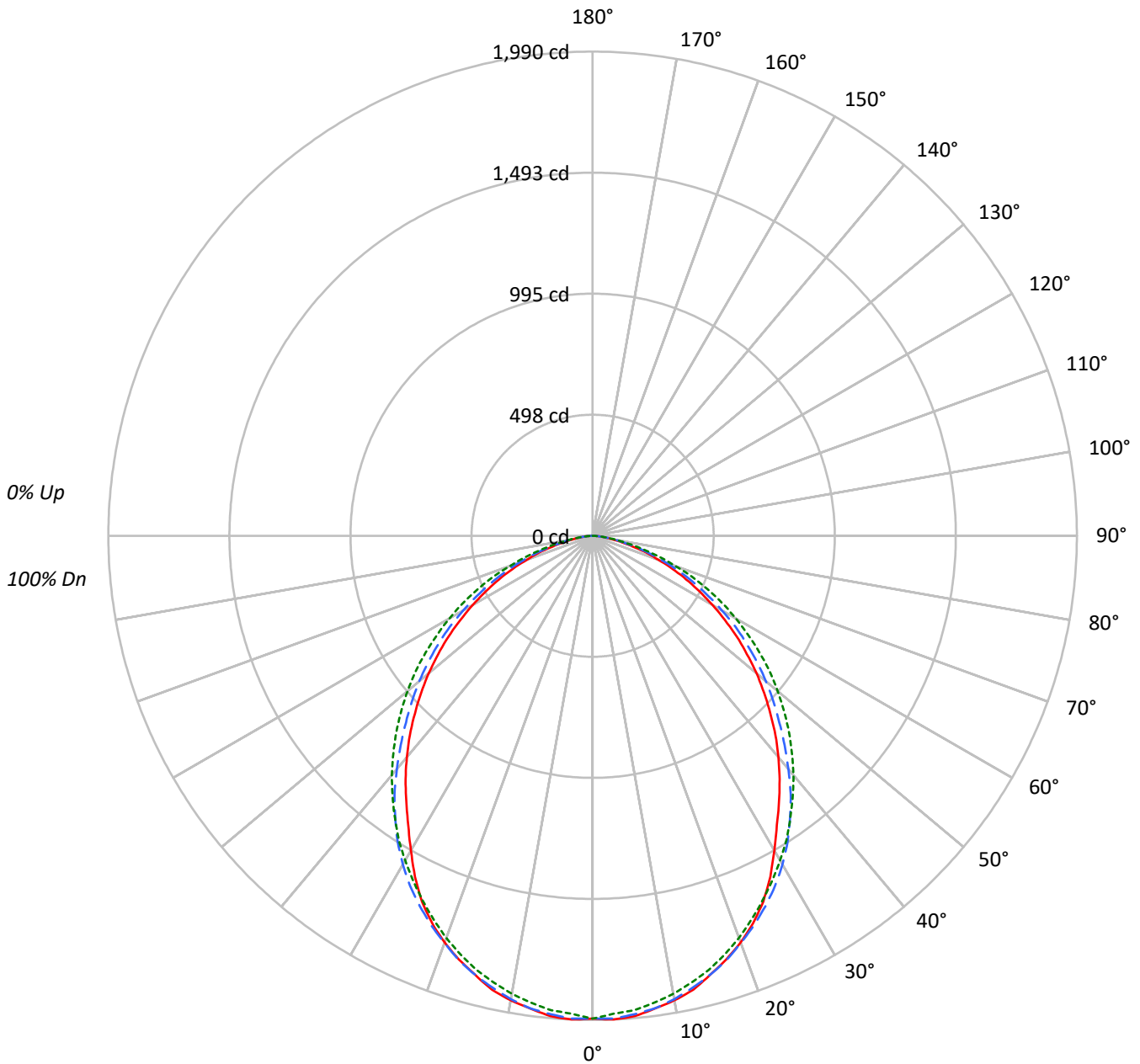
Lumens per Lamp: N/A
Luminaire Lumens: 4589.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10681	10681	10681
5°	10709	10664	10574
10°	10596	10567	10446
15°	10408	10408	10289
20°	10188	10201	10070
25°	9852	9974	9816
30°	9278	9694	9576
35°	8767	9292	9307
40°	8340	8790	9020
45°	7863	8257	8681
50°	7361	7782	8312
55°	6790	7240	7862
60°	6114	6607	7312
65°	5398	5875	6651
70°	4499	5002	5651
75°	3535	3995	4423
80°	2529	2811	3118
85°	1649	1649	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	4.1
10°-20°	524.9	11.4
20°-30°	767.1	16.7
30°-40°	870.8	19.0
40°-50°	840.6	18.3
50°-60°	693.4	15.1
60°-70°	461.8	10.1
70°-80°	206.6	4.5
80°-90°	37.0	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°	1478.9	32.2
0°-40°	2349.7	51.2
0°-60°	3883.6	84.6
0°-90°	4589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1982	1982	1974	1963	1957	188
15°	1868	1872	1868	1860	1847	527
25°	1659	1672	1680	1668	1653	760
35°	1334	1353	1414	1422	1417	836
45°	1033	1051	1085	1134	1141	797
55°	724	736	772	814	838	646
65°	424	435	461	494	522	420
75°	170	179	192	201	213	186
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1984.6	1984.6	1984.6	1984.6	1984.6
2.5°	1990.0	1990.7	1986.1	1973.9	1966.3
5°	1982.3	1981.6	1973.9	1963.3	1957.2
7.5°	1960.2	1961.8	1959.5	1944.2	1935.8
10°	1938.9	1939.6	1933.5	1921.3	1911.4
12.5°	1911.4	1910.7	1902.3	1896.2	1880.2
15°	1868.0	1872.5	1868.0	1859.6	1846.6
17.5°	1826.0	1826.0	1829.1	1814.6	1804.7
20°	1778.8	1781.1	1781.1	1769.6	1758.2
22.5°	1723.9	1730.7	1733.0	1720.8	1707.1
25°	1659.1	1672.0	1679.6	1667.5	1653.0
27.5°	1580.5	1600.4	1623.2	1614.1	1598.1
30°	1492.9	1521.8	1559.9	1552.3	1540.9
32.5°	1409.7	1438.7	1491.3	1488.3	1482.2
35°	1334.3	1352.6	1414.3	1421.9	1416.6
37.5°	1262.6	1279.4	1337.3	1354.9	1350.3
40°	1187.1	1205.4	1251.2	1282.4	1283.9
42.5°	1112.4	1129.9	1167.3	1212.3	1212.3
45°	1033.1	1050.6	1084.9	1134.5	1140.6
47.5°	955.3	973.6	1007.2	1056.7	1066.6
50°	879.1	895.9	929.4	977.4	992.7
52.5°	799.8	818.1	850.9	895.1	917.2
55°	723.6	735.8	771.6	814.3	837.9
57.5°	644.3	655.7	696.1	732.7	757.1
60°	568.0	582.5	613.8	651.1	679.3
62.5°	494.8	510.1	536.8	569.5	601.6
65°	423.9	435.4	461.3	494.1	522.3
67.5°	355.3	365.2	391.1	414.0	443.7
70°	285.9	298.9	317.9	340.0	359.1
72.5°	230.3	235.6	251.6	267.6	287.4
75°	170.0	179.2	192.1	201.3	212.7
77.5°	122.0	127.3	135.0	142.6	153.2
80°	81.6	83.9	90.7	92.3	100.6
82.5°	49.6	51.1	52.6	53.4	56.4
85°	26.7	26.7	26.7	25.2	25.2
87.5°	15.2	15.2	13.0	10.7	7.6
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)