

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: P555468

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-96-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: P555468
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-35-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

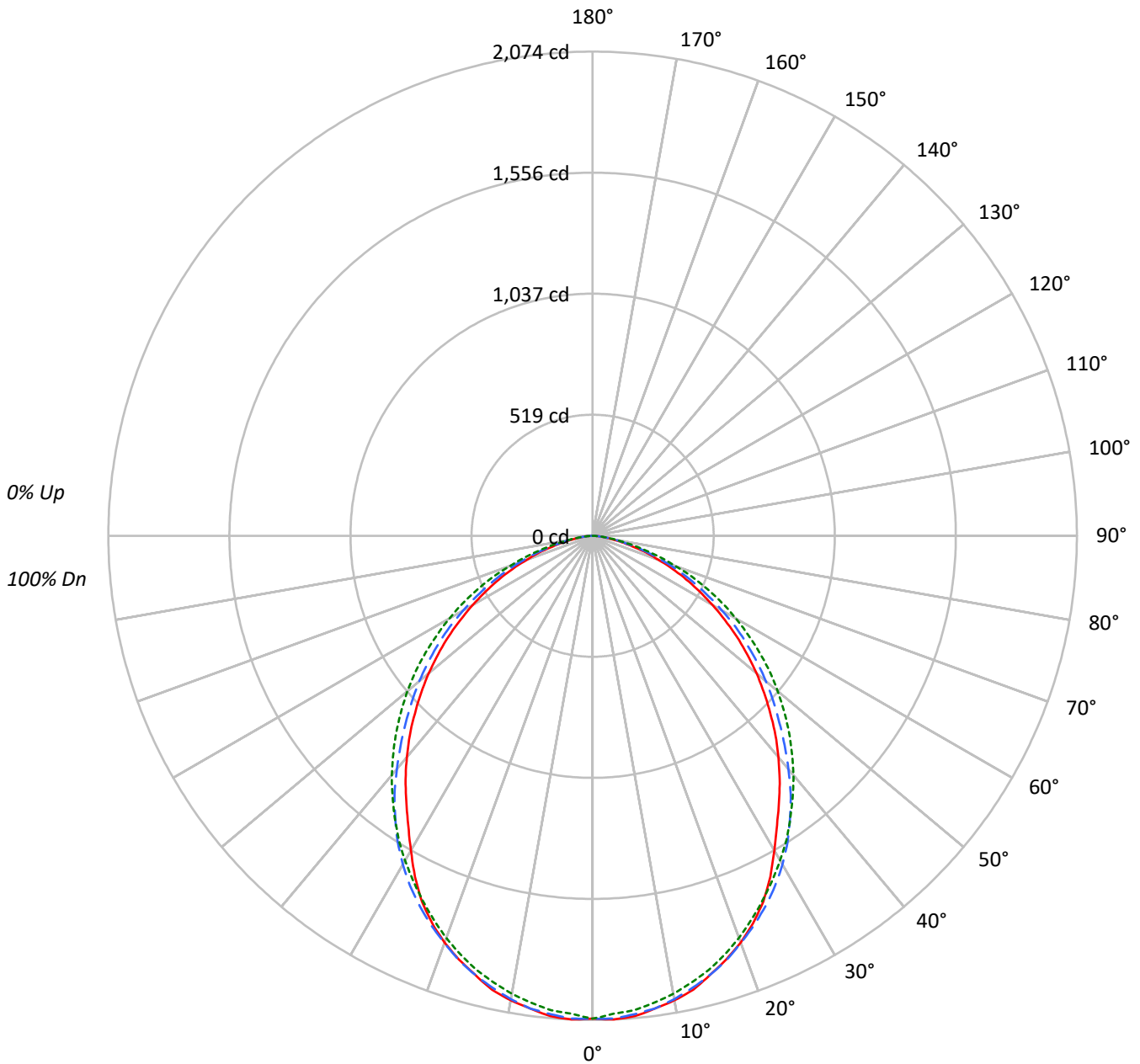
Lumens per Lamp: N/A
Luminaire Lumens: 4783.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11133	11133	11133
5°	11162	11115	11021
10°	11044	11014	10887
15°	10848	10848	10724
20°	10619	10632	10495
25°	10269	10396	10231
30°	9670	10104	9981
35°	9137	9685	9701
40°	8693	9162	9402
45°	8196	8607	9048
50°	7672	8111	8663
55°	7076	7546	8194
60°	6372	6886	7622
65°	5626	6123	6932
70°	4689	5215	5890
75°	3685	4165	4610
80°	2634	2932	3251
85°	1717	1717	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	4.1
10°-20°	547.1	11.4
20°-30°	799.5	16.7
30°-40°	907.6	19.0
40°-50°	876.1	18.3
50°-60°	722.7	15.1
60°-70°	481.3	10.1
70°-80°	215.4	4.5
80°-90°	38.5	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°	1541.4	32.2
0°-40°	2449.0	51.2
0°-60°	4047.8	84.6
0°-90°	4783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2066	2065	2057	2046	2040	196
15°	1947	1952	1947	1938	1925	549
25°	1729	1743	1751	1738	1723	792
35°	1391	1410	1474	1482	1476	871
45°	1077	1095	1131	1182	1189	831
55°	754	767	804	849	873	673
65°	442	454	481	515	544	438
75°	177	187	200	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2074.1	2074.9	2070.1	2057.4	2049.5
5°	2066.1	2065.3	2057.4	2046.3	2039.9
7.5°	2043.1	2044.7	2042.3	2026.4	2017.7
10°	2020.8	2021.6	2015.3	2002.6	1992.2
12.5°	1992.2	1991.4	1982.7	1976.3	1959.7
15°	1946.9	1951.7	1946.9	1938.2	1924.7
17.5°	1903.2	1903.2	1906.4	1891.3	1881.0
20°	1854.0	1856.3	1856.3	1844.4	1832.5
22.5°	1796.7	1803.9	1806.3	1793.6	1779.3
25°	1729.2	1742.7	1750.7	1737.9	1722.8
27.5°	1647.3	1668.0	1691.9	1682.3	1665.6
30°	1556.0	1586.2	1625.9	1617.9	1606.0
32.5°	1469.3	1499.5	1554.4	1551.2	1544.8
35°	1390.7	1409.7	1474.1	1482.1	1476.5
37.5°	1316.0	1333.5	1393.8	1412.1	1407.4
40°	1237.3	1256.4	1304.1	1336.6	1338.2
42.5°	1159.4	1177.7	1216.6	1263.5	1263.5
45°	1076.8	1095.1	1130.8	1182.5	1188.8
47.5°	995.7	1014.8	1049.8	1101.4	1111.7
50°	916.3	933.7	968.7	1018.8	1034.7
52.5°	833.6	852.7	886.9	932.9	956.0
55°	754.1	766.9	804.2	848.7	873.3
57.5°	671.5	683.4	725.5	763.7	789.1
60°	592.0	607.1	639.7	678.6	708.1
62.5°	515.7	531.6	559.4	593.6	627.0
65°	441.8	453.8	480.8	514.9	544.3
67.5°	370.3	380.6	407.7	431.5	462.5
70°	298.0	311.5	331.4	354.4	374.3
72.5°	240.0	245.6	262.2	278.9	299.6
75°	177.2	186.7	200.3	209.8	221.7
77.5°	127.1	132.7	140.7	148.6	159.7
80°	85.0	87.4	94.6	96.2	104.9
82.5°	51.7	53.2	54.8	55.6	58.8
85°	27.8	27.8	27.8	26.2	26.2
87.5°	15.9	15.9	13.5	11.1	7.9
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)