

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: P555564

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-96-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: P555564
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-40-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

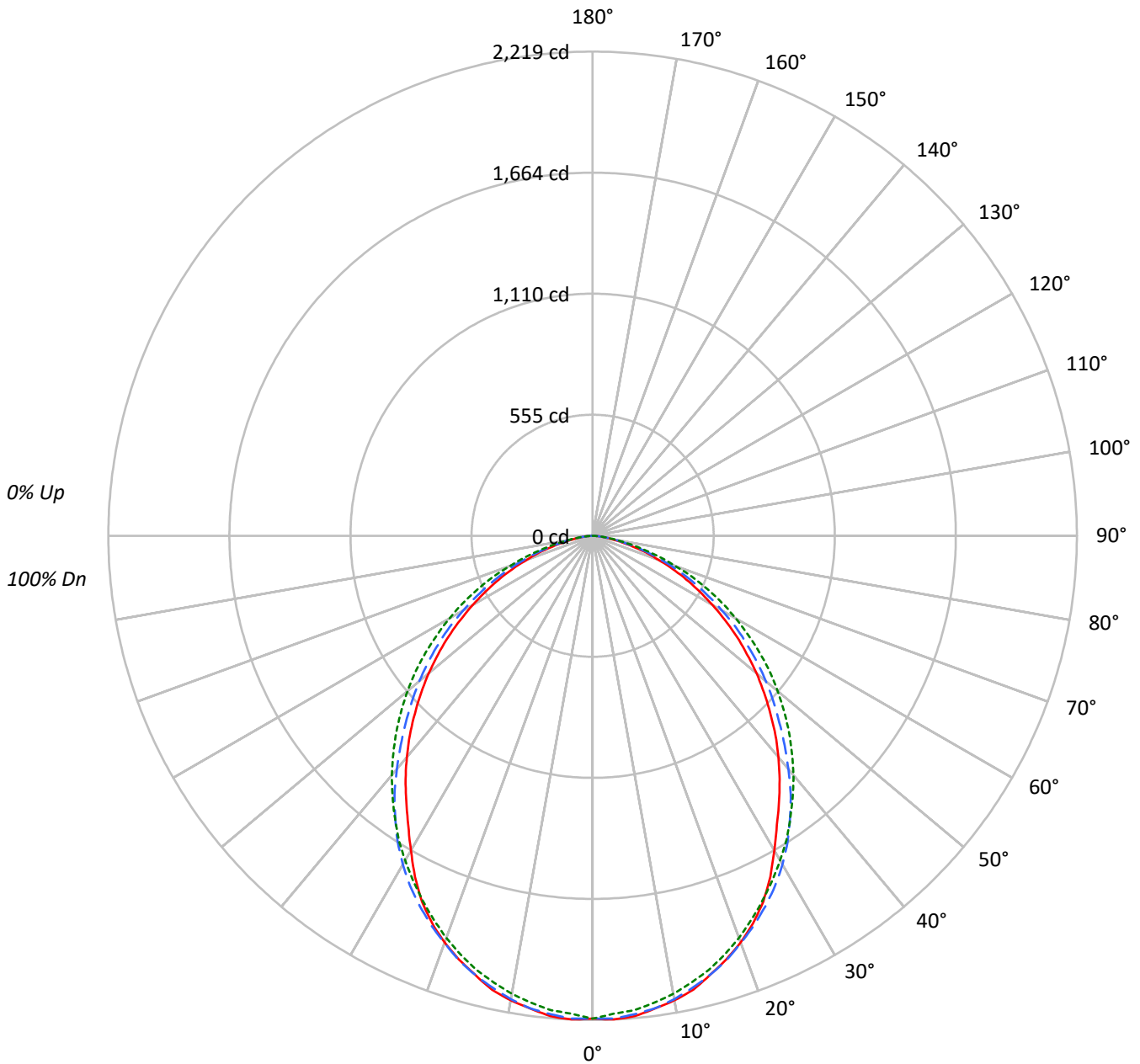
Lumens per Lamp: N/A
Luminaire Lumens: 5117.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555564

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-93-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555564

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-93-96-EDD-90

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°	11910	11910	11910
5°	11942	11891	11790
10°	11815	11783	11648
15°	11606	11606	11473
20°	11360	11375	11228
25°	10986	11122	10946
30°	10345	10810	10678
35°	9775	10361	10378
40°	9300	9801	10059
45°	8768	9208	9680
50°	8207	8677	9268
55°	7570	8073	8767
60°	6818	7367	8154
65°	6020	6550	7417
70°	5017	5578	6301
75°	3943	4454	4932
80°	2820	3137	3477
85°	1840	1840	1735



TEST NUMBER: P555564

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-93-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	4.1
10°-20°	585.3	11.4
20°-30°	855.4	16.7
30°-40°	970.9	19.0
40°-50°	937.3	18.3
50°-60°	773.2	15.1
60°-70°	514.9	10.1
70°-80°	230.4	4.5
80°-90°	41.2	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°	1649.1	32.2
0°-40°	2620.0	51.2
0°-60°	4330.5	84.6
0°-90°	5117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2210	2210	2201	2189	2182	209
15°	2083	2088	2083	2074	2059	587
25°	1850	1864	1873	1859	1843	847
35°	1488	1508	1577	1586	1580	932
45°	1152	1172	1210	1265	1272	889
55°	807	820	860	908	934	720
65°	473	485	514	551	582	469
75°	190	200	214	224	237	207
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



TEST NUMBER: P555564

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-93-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2213.0	2213.0	2213.0	2213.0	2213.0
2.5°	2218.9	2219.8	2214.7	2201.1	2192.6
5°	2210.4	2209.6	2201.1	2189.2	2182.4
7.5°	2185.8	2187.5	2184.9	2167.9	2158.6
10°	2162.0	2162.8	2156.0	2142.4	2131.4
12.5°	2131.4	2130.5	2121.2	2114.4	2096.5
15°	2082.9	2088.0	2082.9	2073.5	2059.1
17.5°	2036.1	2036.1	2039.5	2023.4	2012.3
20°	1983.4	1986.0	1986.0	1973.2	1960.5
22.5°	1922.2	1929.9	1932.4	1918.8	1903.5
25°	1850.0	1864.4	1872.9	1859.3	1843.2
27.5°	1762.4	1784.5	1810.0	1799.8	1781.9
30°	1664.6	1696.9	1739.4	1730.9	1718.2
32.5°	1571.9	1604.3	1662.9	1659.5	1652.7
35°	1487.8	1508.2	1577.0	1585.6	1579.6
37.5°	1407.9	1426.6	1491.2	1510.7	1505.6
40°	1323.7	1344.1	1395.1	1430.0	1431.7
42.5°	1240.4	1259.9	1301.6	1351.8	1351.8
45°	1152.0	1171.5	1209.8	1265.0	1271.8
47.5°	1065.3	1085.7	1123.1	1178.3	1189.4
50°	980.2	998.9	1036.3	1089.9	1106.9
52.5°	891.8	912.2	948.8	998.1	1022.7
55°	806.8	820.4	860.4	908.0	934.3
57.5°	718.4	731.1	776.2	817.0	844.2
60°	633.4	649.5	684.4	726.0	757.5
62.5°	551.8	568.8	598.5	635.1	670.8
65°	472.7	485.4	514.3	550.9	582.4
67.5°	396.2	407.2	436.1	461.6	494.8
70°	318.8	333.3	354.5	379.2	400.4
72.5°	256.7	262.7	280.6	298.4	320.5
75°	189.6	199.8	214.2	224.4	237.2
77.5°	136.0	142.0	150.5	159.0	170.9
80°	91.0	93.5	101.2	102.9	112.2
82.5°	55.3	57.0	58.7	59.5	62.9
85°	29.8	29.8	29.8	28.1	28.1
87.5°	17.0	17.0	14.5	11.9	8.5
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)