

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: P555584

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-84-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: P555584
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-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

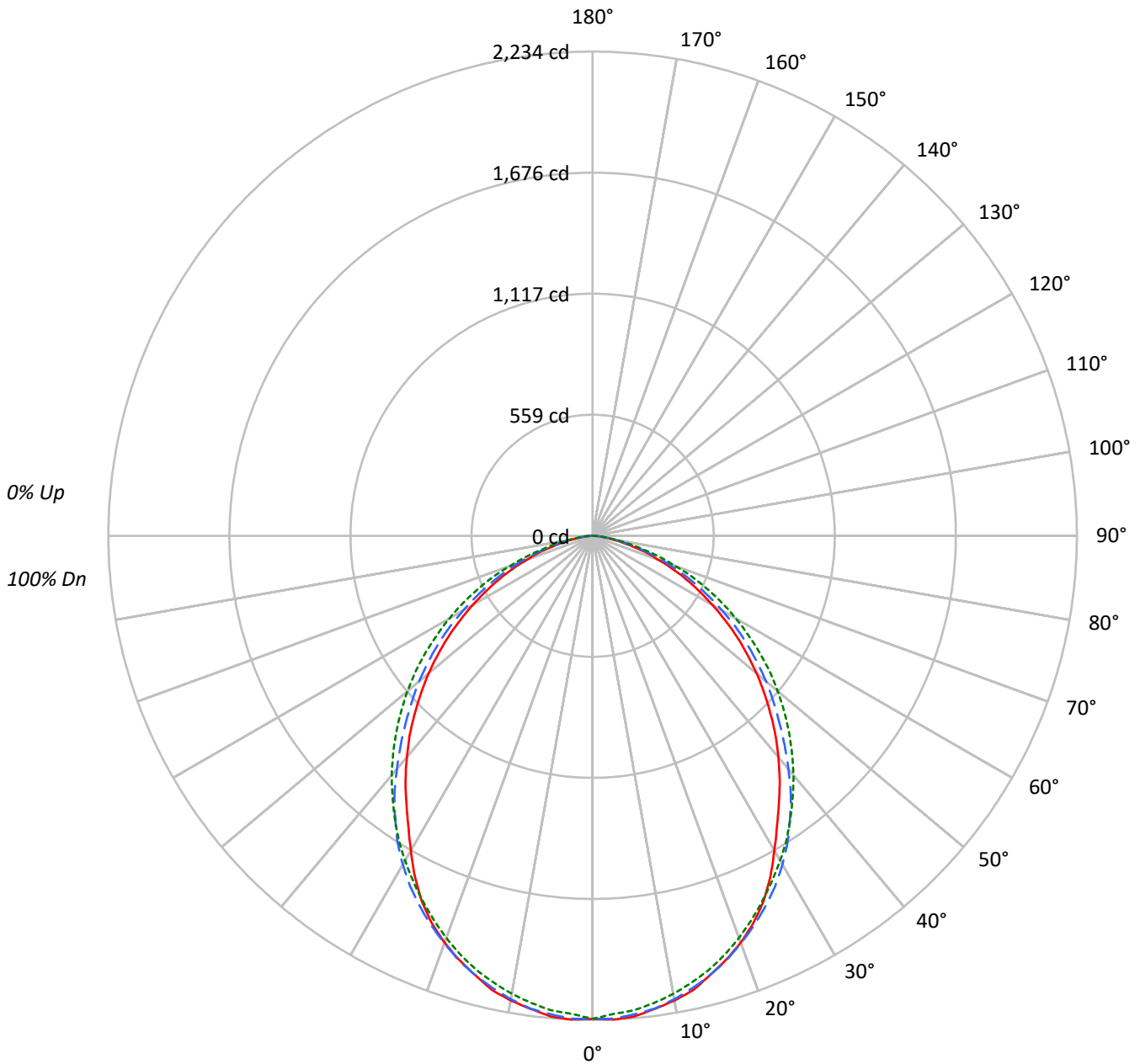
Lumens per Lamp: N/A
Luminaire Lumens: 5153.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P555584

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-81-84-EDD-90

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°	11994	11994	11994
5°	12026	11975	11873
10°	11898	11866	11729
15°	11687	11687	11554
20°	11440	11454	11308
25°	11063	11200	11022
30°	10417	10886	10753
35°	9843	10434	10451
40°	9365	9870	10129
45°	8830	9273	9748
50°	8265	8738	9333
55°	7624	8130	8829
60°	6865	7418	8211
65°	6062	6597	7469
70°	5053	5618	6345
75°	3970	4485	4968
80°	2839	3158	3502
85°	1853	1853	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	4.1
10°-20°	589.5	11.4
20°-30°	861.4	16.7
30°-40°	977.8	19.0
40°-50°	943.9	18.3
50°-60°	778.6	15.1
60°-70°	518.5	10.1
70°-80°	232.0	4.5
80°-90°	41.5	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°	1660.7	32.2
0°-40°	2638.4	51.2
0°-60°	4361.0	84.6
0°-90°	5153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2226	2225	2217	2205	2198	211
15°	2098	2103	2098	2088	2074	591
25°	1863	1878	1886	1872	1856	853
35°	1498	1519	1588	1597	1591	939
45°	1160	1180	1218	1274	1281	895
55°	812	826	866	914	941	725
65°	476	489	518	555	586	472
75°	191	201	216	226	239	209
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2228.5	2228.5	2228.5	2228.5	2228.5
2.5°	2234.5	2235.4	2230.3	2216.6	2208.0
5°	2226.0	2225.1	2216.6	2204.6	2197.7
7.5°	2201.1	2202.9	2200.3	2183.2	2173.7
10°	2177.2	2178.0	2171.2	2157.5	2146.3
12.5°	2146.3	2145.5	2136.1	2129.2	2111.2
15°	2097.5	2102.7	2097.5	2088.1	2073.6
17.5°	2050.5	2050.5	2053.9	2037.6	2026.5
20°	1997.4	1999.9	1999.9	1987.1	1974.3
22.5°	1935.7	1943.4	1946.0	1932.3	1916.9
25°	1863.0	1877.5	1886.1	1872.4	1856.1
27.5°	1774.8	1797.0	1822.7	1812.5	1794.5
30°	1676.3	1708.9	1751.7	1743.1	1730.3
32.5°	1583.0	1615.5	1674.6	1671.2	1664.3
35°	1498.2	1518.8	1588.1	1596.7	1590.7
37.5°	1417.8	1436.6	1501.7	1521.4	1516.2
40°	1333.0	1353.6	1404.9	1440.0	1441.7
42.5°	1249.1	1268.8	1310.8	1361.3	1361.3
45°	1160.1	1179.8	1218.3	1273.9	1280.8
47.5°	1072.7	1093.3	1131.0	1186.6	1197.7
50°	987.1	1006.0	1043.6	1097.6	1114.7
52.5°	898.1	918.6	955.5	1005.1	1029.9
55°	812.5	826.2	866.4	914.4	940.9
57.5°	723.4	736.3	781.7	822.8	850.1
60°	637.8	654.1	689.2	731.1	762.8
62.5°	555.6	572.8	602.7	639.5	675.5
65°	476.0	488.9	518.0	554.8	586.5
67.5°	399.0	410.1	439.2	464.9	498.3
70°	321.1	335.6	357.0	381.8	403.2
72.5°	258.6	264.5	282.5	300.5	322.8
75°	190.9	201.2	215.7	226.0	238.9
77.5°	137.0	143.0	151.5	160.1	172.1
80°	91.6	94.2	101.9	103.6	113.0
82.5°	55.6	57.4	59.1	59.9	63.4
85°	30.0	30.0	30.0	28.3	28.3
87.5°	17.1	17.1	14.6	12.0	8.6
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)