

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: P555504

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-84-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: P555504
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

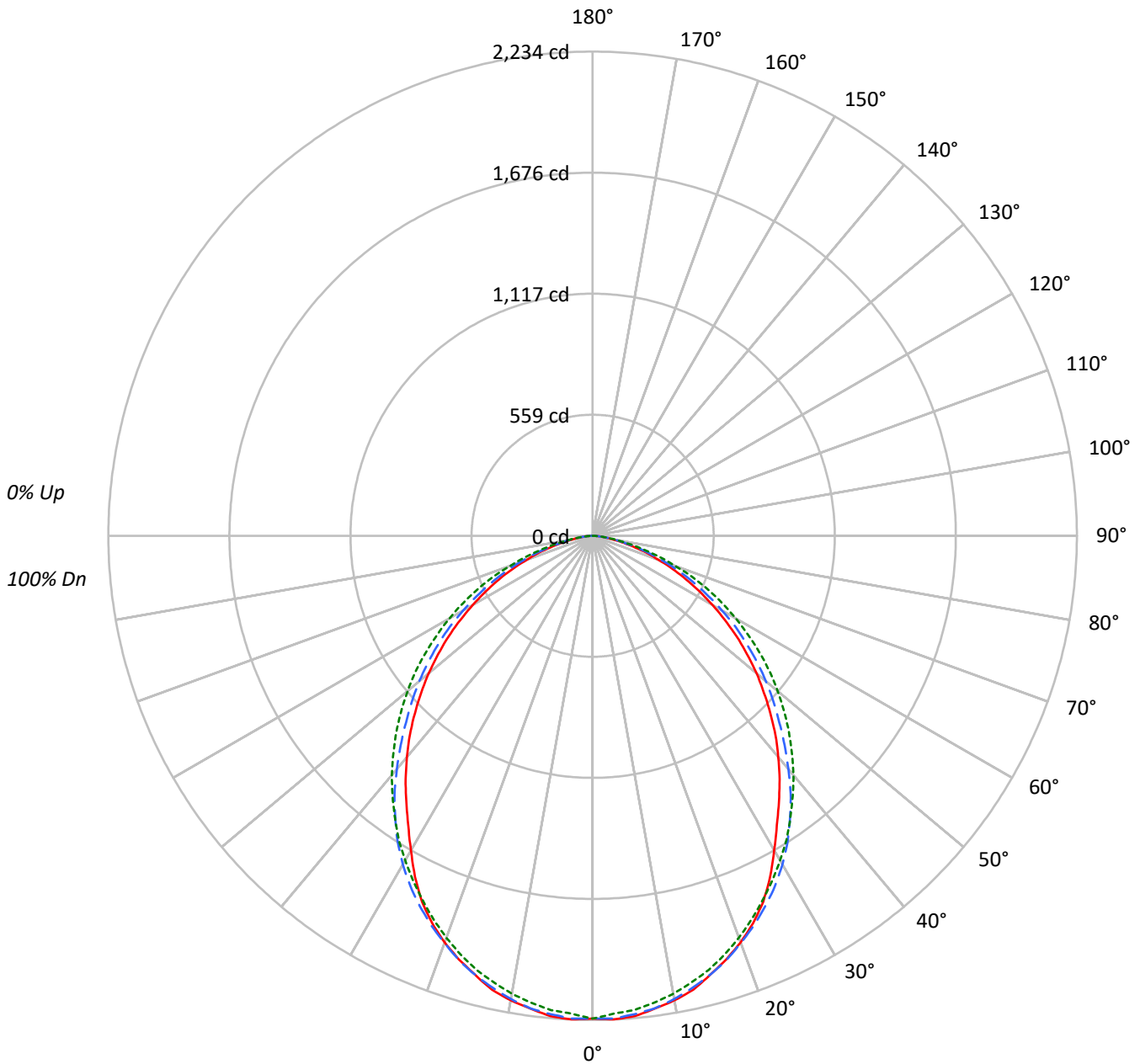
Lumens per Lamp: N/A
Luminaire Lumens: 5151.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555504

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-84-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11989	11989	11989
5°	12021	11970	11869
10°	11893	11861	11725
15°	11682	11682	11549
20°	11435	11450	11303
25°	11058	11196	11018
30°	10414	10882	10749
35°	9840	10430	10447
40°	9362	9867	10125
45°	8826	9269	9745
50°	8261	8735	9330
55°	7621	8127	8825
60°	6863	7415	8207
65°	6059	6594	7465
70°	5050	5616	6343
75°	3968	4485	4966
80°	2839	3155	3502
85°	1853	1853	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	4.1
10°-20°	589.2	11.4
20°-30°	861.1	16.7
30°-40°	977.4	19.0
40°-50°	943.5	18.3
50°-60°	778.3	15.1
60°-70°	518.3	10.1
70°-80°	231.9	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°	1660.0	32.2
0°-40°	2637.4	51.2
0°-60°	4359.3	84.6
0°-90°	5151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2225	2224	2216	2204	2197	211
15°	2097	2102	2097	2087	2073	591
25°	1862	1877	1885	1872	1855	853
35°	1498	1518	1588	1596	1590	938
45°	1160	1179	1218	1273	1280	895
55°	812	826	866	914	940	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°	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2233.7	2234.5	2229.4	2215.7	2207.1
5°	2225.1	2224.3	2215.7	2203.7	2196.9
7.5°	2200.3	2202.0	2199.4	2182.3	2172.9
10°	2176.3	2177.2	2170.3	2156.6	2145.5
12.5°	2145.5	2144.7	2135.2	2128.4	2110.4
15°	2096.7	2101.9	2096.7	2087.3	2072.8
17.5°	2049.7	2049.7	2053.1	2036.8	2025.7
20°	1996.6	1999.2	1999.2	1986.3	1973.5
22.5°	1935.0	1942.7	1945.3	1931.6	1916.2
25°	1862.2	1876.8	1885.4	1871.7	1855.4
27.5°	1774.1	1796.3	1822.0	1811.8	1793.8
30°	1675.7	1708.2	1751.0	1742.4	1729.6
32.5°	1582.4	1614.9	1674.0	1670.5	1663.7
35°	1497.7	1518.2	1587.5	1596.1	1590.1
37.5°	1417.2	1436.0	1501.1	1520.8	1515.6
40°	1332.5	1353.0	1404.4	1439.5	1441.2
42.5°	1248.6	1268.3	1310.2	1360.7	1360.7
45°	1159.6	1179.3	1217.8	1273.4	1280.3
47.5°	1072.3	1092.9	1130.5	1186.2	1197.3
50°	986.7	1005.6	1043.2	1097.1	1114.3
52.5°	897.7	918.3	955.1	1004.7	1029.5
55°	812.2	825.9	866.1	914.0	940.5
57.5°	723.2	736.0	781.4	822.4	849.8
60°	637.6	653.8	688.9	730.9	762.5
62.5°	555.4	572.5	602.5	639.3	675.2
65°	475.8	488.7	517.8	554.6	586.2
67.5°	398.8	409.9	439.0	464.7	498.1
70°	320.9	335.5	356.9	381.7	403.1
72.5°	258.5	264.4	282.4	300.4	322.6
75°	190.8	201.1	215.7	225.9	238.8
77.5°	136.9	142.9	151.5	160.0	172.0
80°	91.6	94.1	101.8	103.6	113.0
82.5°	55.6	57.3	59.1	59.9	63.3
85°	30.0	30.0	30.0	28.2	28.2
87.5°	17.1	17.1	14.5	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)