

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: P555574

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-87-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: P555574
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

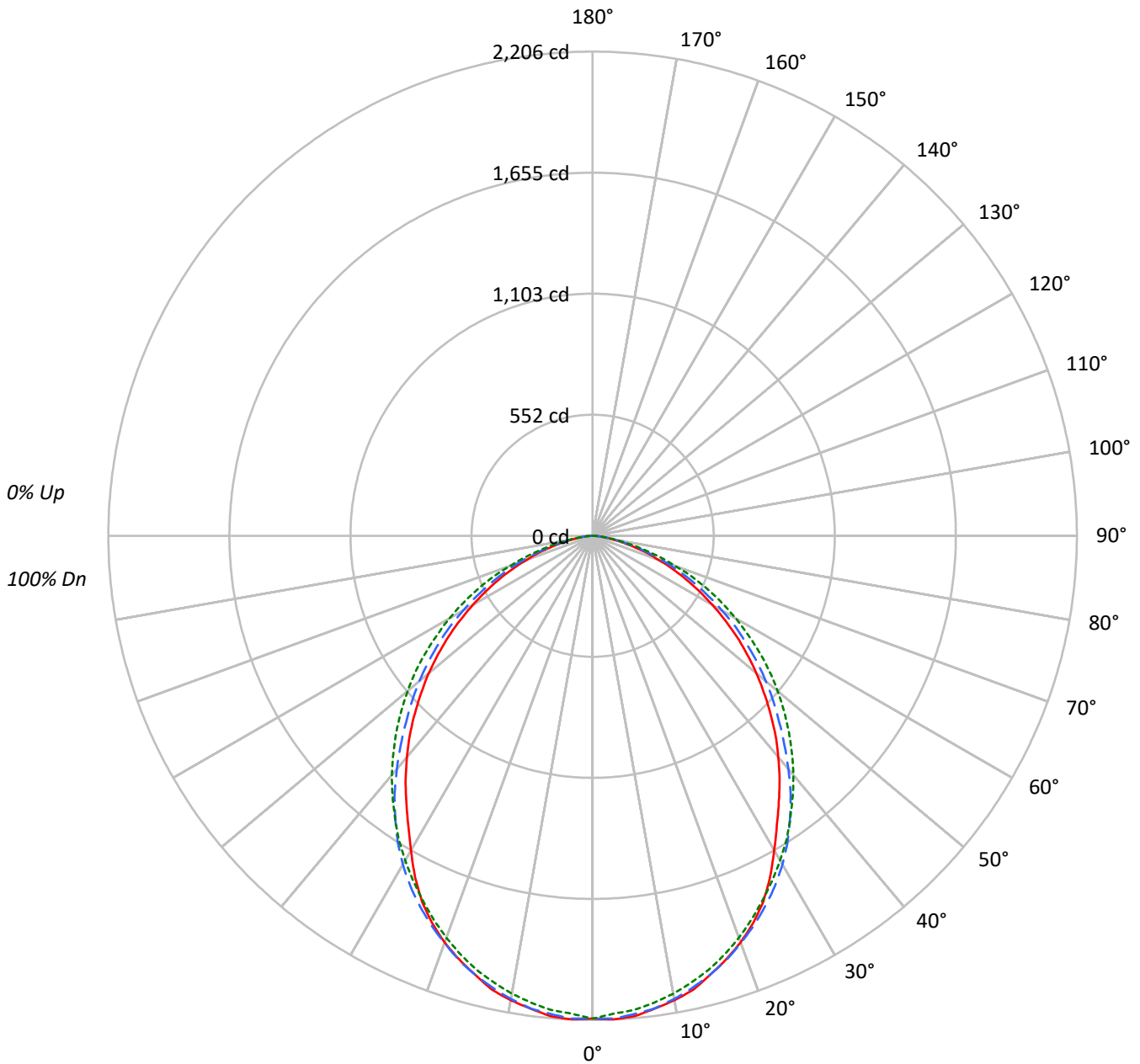
Lumens per Lamp: N/A
Luminaire Lumens: 5086.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555574

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-87-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°	11838	11838	11838
5°	11869	11819	11719
10°	11744	11711	11577
15°	11535	11535	11403
20°	11291	11305	11160
25°	10919	11055	10879
30°	10282	10744	10613
35°	9716	10299	10315
40°	9244	9742	9997
45°	8715	9153	9621
50°	8158	8625	9212
55°	7524	8024	8714
60°	6776	7322	8104
65°	5983	6510	7371
70°	4987	5545	6263
75°	3918	4427	4903
80°	2802	3118	3456
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	4.1
10°-20°	581.8	11.4
20°-30°	850.2	16.7
30°-40°	965.0	19.0
40°-50°	931.6	18.3
50°-60°	768.5	15.1
60°-70°	511.8	10.1
70°-80°	229.0	4.5
80°-90°	41.0	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°	1639.1	32.2
0°-40°	2604.1	51.2
0°-60°	4304.2	84.6
0°-90°	5086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2197	2196	2188	2176	2169	208
15°	2070	2075	2070	2061	2047	584
25°	1839	1853	1862	1848	1832	842
35°	1479	1499	1568	1576	1570	927
45°	1145	1164	1202	1257	1264	883
55°	802	815	855	902	929	716
65°	470	482	511	548	579	466
75°	188	199	213	223	236	206
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°	2199.6	2199.6	2199.6	2199.6	2199.6
2.5°	2205.5	2206.3	2201.3	2187.7	2179.3
5°	2197.0	2196.2	2187.7	2175.9	2169.1
7.5°	2172.5	2174.2	2171.7	2154.8	2145.5
10°	2148.9	2149.7	2142.9	2129.4	2118.4
12.5°	2118.4	2117.6	2108.3	2101.5	2083.8
15°	2070.3	2075.3	2070.3	2061.0	2046.6
17.5°	2023.8	2023.8	2027.2	2011.1	2000.1
20°	1971.4	1973.9	1973.9	1961.3	1948.6
22.5°	1910.6	1918.2	1920.7	1907.2	1892.0
25°	1838.7	1853.1	1861.6	1848.0	1832.0
27.5°	1751.7	1773.7	1799.0	1788.9	1771.1
30°	1654.5	1686.6	1728.9	1720.4	1707.8
32.5°	1562.4	1594.5	1652.8	1649.5	1642.7
35°	1478.8	1499.0	1567.5	1575.9	1570.0
37.5°	1399.3	1417.9	1482.1	1501.6	1496.5
40°	1315.7	1336.0	1386.7	1421.3	1423.0
42.5°	1232.9	1252.3	1293.7	1343.6	1343.6
45°	1145.0	1164.4	1202.5	1257.4	1264.1
47.5°	1058.8	1079.1	1116.3	1171.2	1182.2
50°	974.3	992.9	1030.1	1083.3	1100.2
52.5°	886.4	906.7	943.0	992.0	1016.5
55°	801.9	815.4	855.2	902.5	928.7
57.5°	714.0	726.7	771.5	812.1	839.1
60°	629.5	645.6	680.2	721.6	752.9
62.5°	548.4	565.3	594.9	631.2	666.7
65°	469.8	482.5	511.2	547.6	578.8
67.5°	393.8	404.8	433.5	458.8	491.8
70°	316.9	331.2	352.4	376.9	398.0
72.5°	255.2	261.1	278.9	296.6	318.6
75°	188.4	198.6	212.9	223.1	235.8
77.5°	135.2	141.1	149.6	158.0	169.8
80°	90.4	93.0	100.6	102.2	111.5
82.5°	54.9	56.6	58.3	59.2	62.5
85°	29.6	29.6	29.6	27.9	27.9
87.5°	16.9	16.9	14.4	11.8	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)