

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: P556091

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-94-EDD**

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: P556091
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-LD4-3STD-50-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

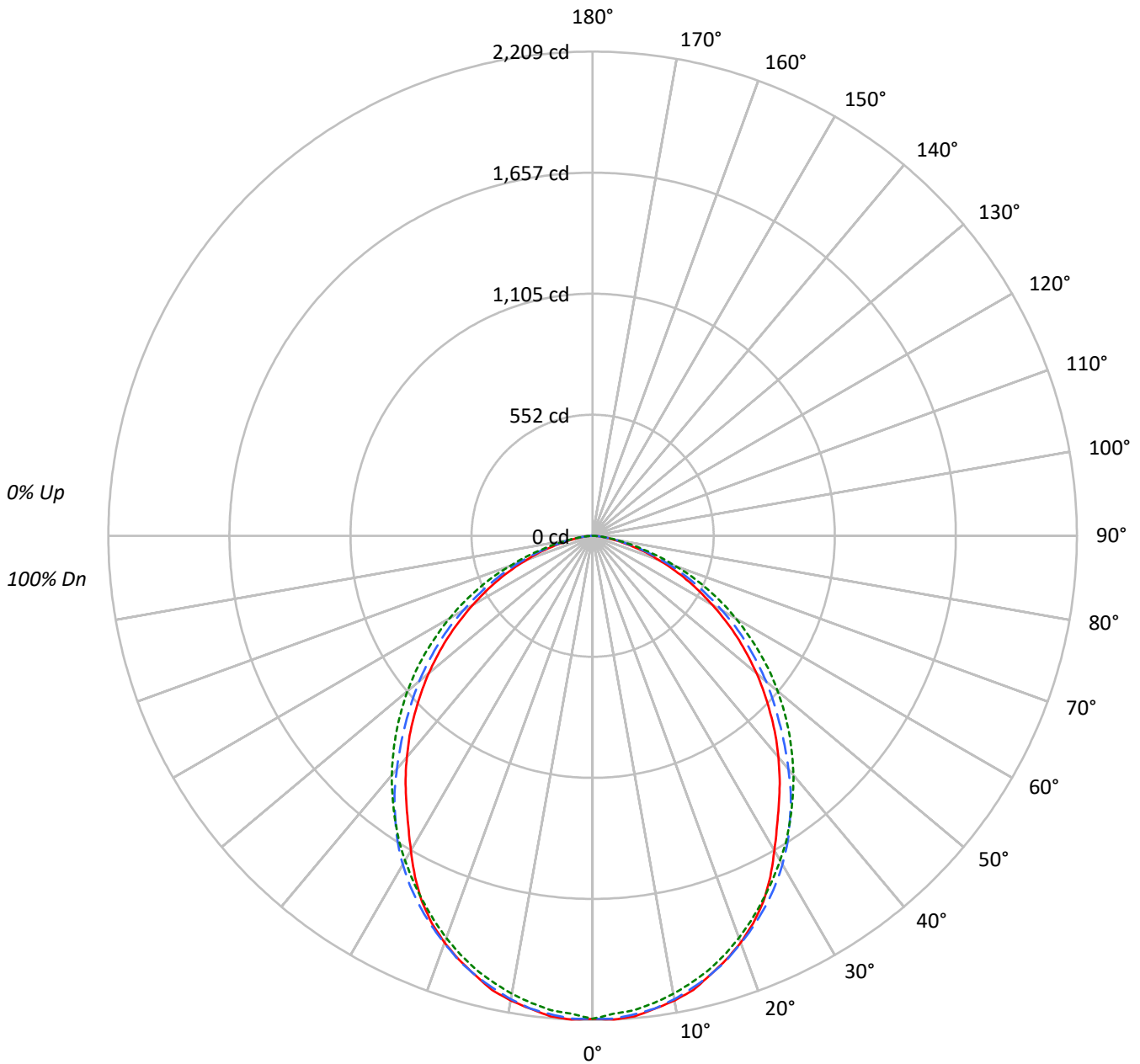
Lumens per Lamp: N/A
Luminaire Lumens: 5095.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	11859	11859	11859
5°	11890	11840	11740
10°	11764	11732	11598
15°	11555	11555	11423
20°	11311	11325	11180
25°	10938	11074	10898
30°	10301	10764	10632
35°	9733	10317	10334
40°	9260	9759	10015
45°	8730	9168	9639
50°	8172	8640	9229
55°	7537	8039	8729
60°	6788	7335	8118
65°	5994	6521	7385
70°	4995	5555	6274
75°	3926	4435	4912
80°	2808	3121	3462
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	4.1
10°-20°	582.8	11.4
20°-30°	851.7	16.7
30°-40°	966.8	19.0
40°-50°	933.3	18.3
50°-60°	769.9	15.1
60°-70°	512.7	10.1
70°-80°	229.4	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°	1642.0	32.2
0°-40°	2608.7	51.2
0°-60°	4311.9	84.6
0°-90°	5095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2201	2200	2192	2180	2173	208
15°	2074	2079	2074	2065	2050	585
25°	1842	1856	1865	1851	1835	844
35°	1481	1502	1570	1579	1573	928
45°	1147	1166	1205	1260	1266	885
55°	803	817	857	904	930	717
65°	471	483	512	548	580	467
75°	189	199	213	224	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°	2203.5	2203.5	2203.5	2203.5	2203.5
2.5°	2209.4	2210.2	2205.1	2191.6	2183.1
5°	2200.9	2200.1	2191.6	2179.8	2173.0
7.5°	2176.4	2178.1	2175.5	2158.6	2149.3
10°	2152.7	2153.5	2146.7	2133.2	2122.2
12.5°	2122.2	2121.3	2112.0	2105.3	2087.5
15°	2073.9	2079.0	2073.9	2064.6	2050.2
17.5°	2027.4	2027.4	2030.8	2014.7	2003.7
20°	1974.9	1977.4	1977.4	1964.7	1952.0
22.5°	1914.0	1921.6	1924.1	1910.6	1895.3
25°	1842.0	1856.4	1864.9	1851.3	1835.2
27.5°	1754.8	1776.8	1802.2	1792.1	1774.3
30°	1657.5	1689.6	1732.0	1723.5	1710.8
32.5°	1565.2	1597.4	1655.8	1652.4	1645.6
35°	1481.4	1501.7	1570.3	1578.7	1572.8
37.5°	1401.8	1420.4	1484.8	1504.2	1499.2
40°	1318.0	1338.3	1389.1	1423.8	1425.5
42.5°	1235.1	1254.5	1296.0	1345.9	1345.9
45°	1147.0	1166.5	1204.6	1259.6	1266.4
47.5°	1060.7	1081.0	1118.2	1173.3	1184.3
50°	976.0	994.6	1031.9	1085.2	1102.2
52.5°	888.0	908.3	944.7	993.8	1018.3
55°	803.3	816.9	856.7	904.1	930.3
57.5°	715.3	728.0	772.9	813.5	840.6
60°	630.6	646.7	681.4	722.9	754.2
62.5°	549.4	566.3	595.9	632.3	667.9
65°	470.7	483.4	512.1	548.5	579.9
67.5°	394.5	405.5	434.3	459.7	492.7
70°	317.4	331.8	353.0	377.5	398.7
72.5°	255.6	261.6	279.3	297.1	319.1
75°	188.8	198.9	213.3	223.5	236.2
77.5°	135.4	141.4	149.8	158.3	170.1
80°	90.6	93.1	100.7	102.4	111.7
82.5°	55.0	56.7	58.4	59.3	62.6
85°	29.6	29.6	29.6	27.9	27.9
87.5°	16.9	16.9	14.4	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)