

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: P555965

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-96-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: P555965
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-35-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

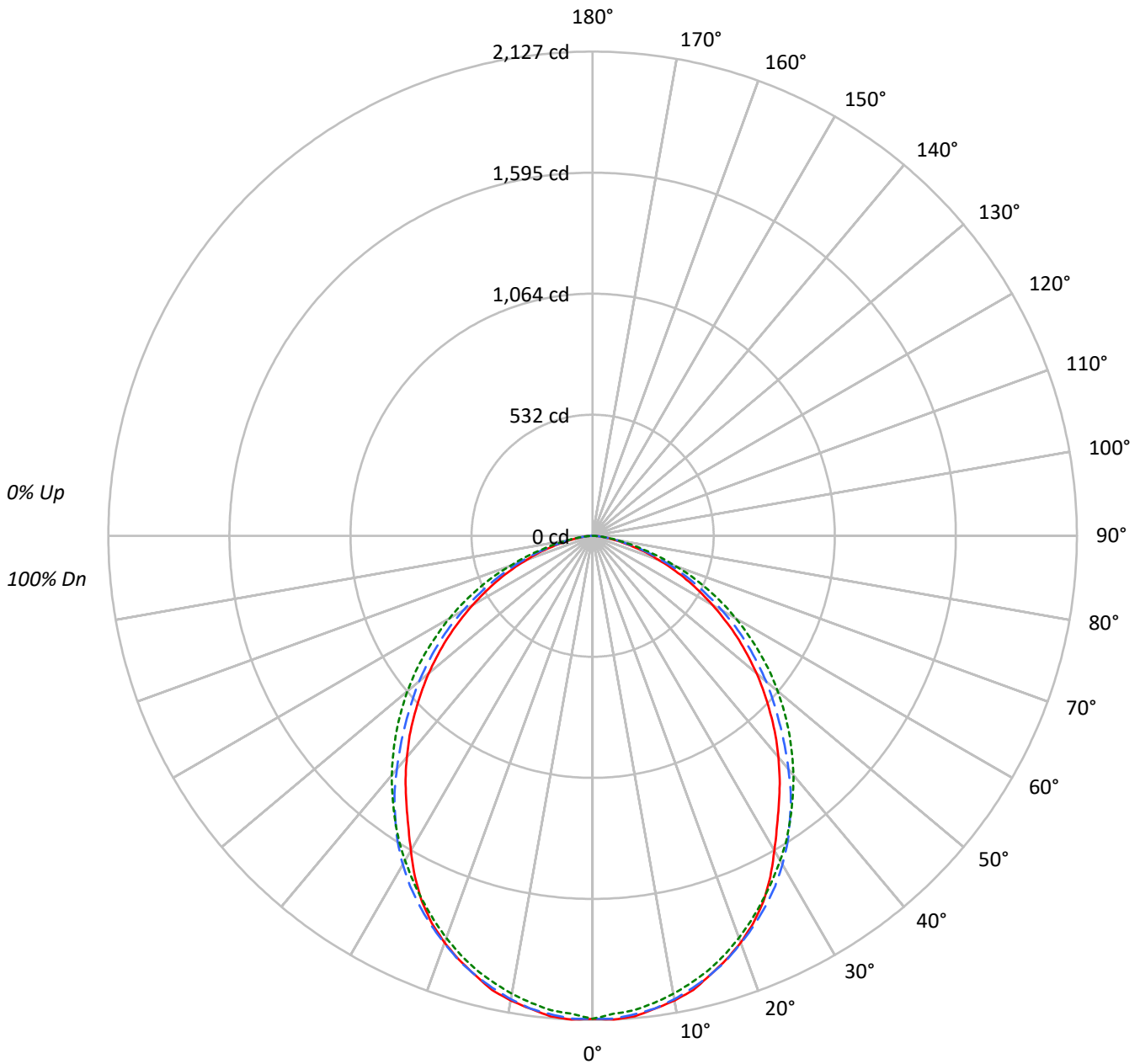
Lumens per Lamp: N/A
Luminaire Lumens: 4906.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11419	11419	11419
5°	11450	11401	11304
10°	11328	11297	11168
15°	11127	11127	11000
20°	10891	10905	10765
25°	10533	10663	10494
30°	9918	10364	10237
35°	9372	9934	9951
40°	8916	9398	9643
45°	8407	8828	9281
50°	7869	8319	8886
55°	7258	7740	8405
60°	6537	7063	7818
65°	5771	6280	7110
70°	4810	5349	6041
75°	3780	4271	4729
80°	2703	3006	3335
85°	1760	1760	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	4.1
10°-20°	561.2	11.4
20°-30°	820.1	16.7
30°-40°	930.9	19.0
40°-50°	898.6	18.3
50°-60°	741.3	15.1
60°-70°	493.6	10.1
70°-80°	220.9	4.5
80°-90°	39.5	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°	1581.1	32.2
0°-40°	2512.0	51.2
0°-60°	4151.9	84.6
0°-90°	4906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2119	2118	2110	2099	2092	201
15°	1997	2002	1997	1988	1974	563
25°	1774	1788	1796	1783	1767	812
35°	1426	1446	1512	1520	1514	894
45°	1104	1123	1160	1213	1219	852
55°	774	787	825	870	896	690
65°	453	465	493	528	558	449
75°	182	192	205	215	227	199
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.7	2121.7	2121.7	2121.7	2121.7
2.5°	2127.4	2128.2	2123.3	2110.3	2102.2
5°	2119.3	2118.5	2110.3	2098.9	2092.4
7.5°	2095.6	2097.3	2094.8	2078.5	2069.6
10°	2072.8	2073.6	2067.1	2054.1	2043.5
12.5°	2043.5	2042.7	2033.7	2027.2	2010.0
15°	1997.0	2001.9	1997.0	1988.0	1974.2
17.5°	1952.2	1952.2	1955.4	1939.9	1929.4
20°	1901.6	1904.1	1904.1	1891.9	1879.6
22.5°	1843.0	1850.3	1852.7	1839.7	1825.0
25°	1773.7	1787.5	1795.7	1782.6	1767.1
27.5°	1689.7	1710.9	1735.4	1725.6	1708.5
30°	1596.0	1626.9	1667.7	1659.6	1647.3
32.5°	1507.1	1538.1	1594.3	1591.1	1584.6
35°	1426.4	1446.0	1512.0	1520.2	1514.5
37.5°	1349.8	1367.7	1429.7	1448.4	1443.6
40°	1269.1	1288.7	1337.6	1371.0	1372.6
42.5°	1189.2	1208.0	1247.9	1296.0	1296.0
45°	1104.5	1123.2	1159.9	1212.9	1219.4
47.5°	1021.3	1040.9	1076.8	1129.7	1140.3
50°	939.8	957.7	993.6	1045.0	1061.3
52.5°	855.0	874.6	909.7	956.9	980.6
55°	773.5	786.6	824.9	870.5	895.8
57.5°	688.8	701.0	744.2	783.3	809.4
60°	607.3	622.7	656.2	696.1	726.3
62.5°	529.0	545.3	573.8	608.9	643.1
65°	453.2	465.4	493.1	528.2	558.3
67.5°	379.8	390.4	418.1	442.6	474.4
70°	305.7	319.5	339.9	363.5	383.9
72.5°	246.2	251.9	269.0	286.1	307.3
75°	181.8	191.5	205.4	215.2	227.4
77.5°	130.4	136.1	144.3	152.4	163.8
80°	87.2	89.7	97.0	98.6	107.6
82.5°	53.0	54.6	56.2	57.1	60.3
85°	28.5	28.5	28.5	26.9	26.9
87.5°	16.3	16.3	13.9	11.4	8.2
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)