

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: P556019

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-85-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: P556019
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-40-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

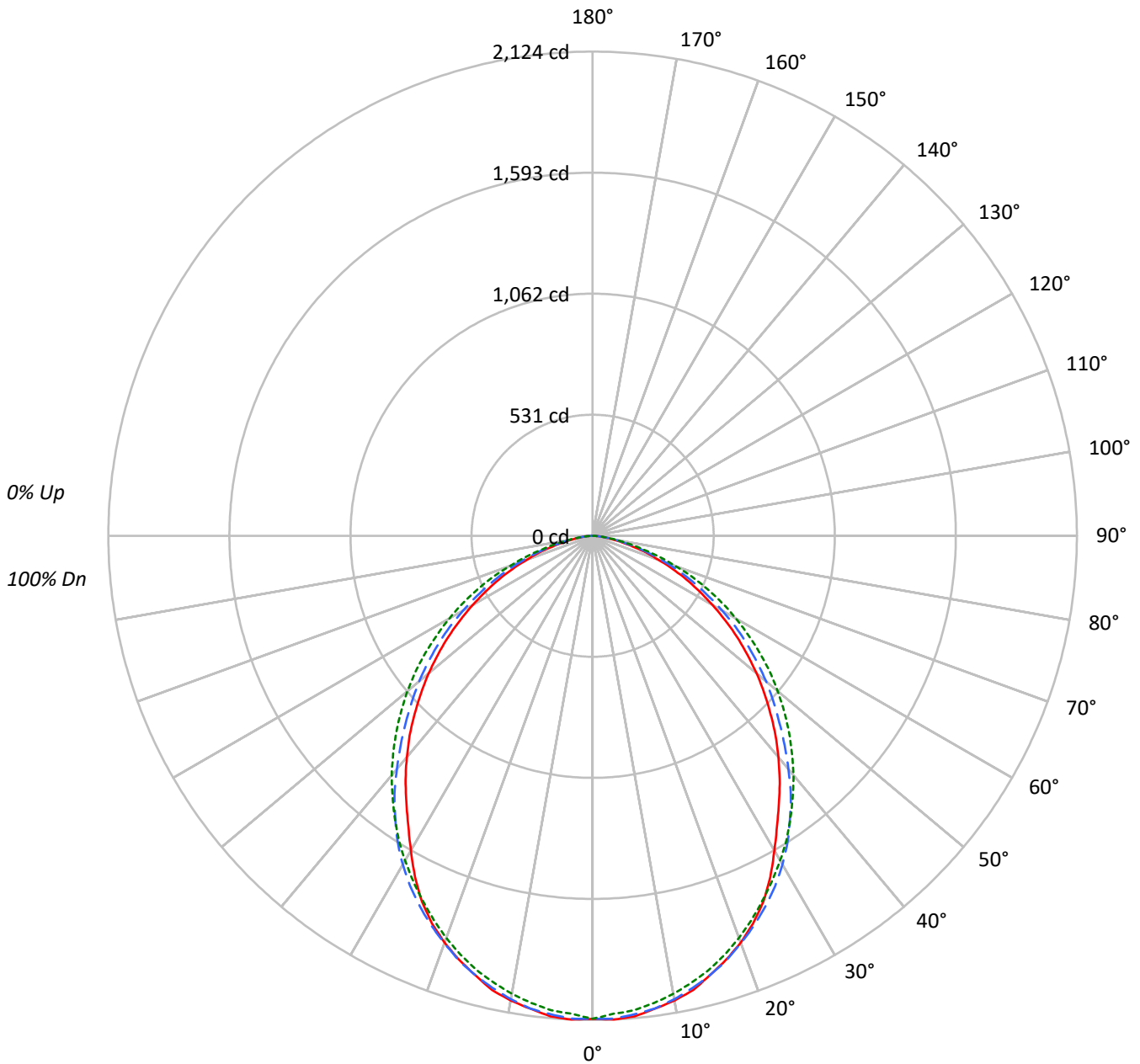
Lumens per Lamp: N/A
Luminaire Lumens: 4899.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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

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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°	11403	11403	11403
5°	11433	11385	11288
10°	11312	11281	11152
15°	11111	11111	10984
20°	10876	10890	10750
25°	10517	10648	10479
30°	9904	10349	10223
35°	9359	9920	9936
40°	8904	9384	9630
45°	8394	8815	9268
50°	7858	8308	8874
55°	7248	7729	8393
60°	6527	7053	7806
65°	5764	6271	7101
70°	4803	5341	6033
75°	3774	4265	4722
80°	2700	3003	3329
85°	1760	1760	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	4.1
10°-20°	560.4	11.4
20°-30°	818.9	16.7
30°-40°	929.6	19.0
40°-50°	897.4	18.3
50°-60°	740.3	15.1
60°-70°	493.0	10.1
70°-80°	220.6	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°	1578.8	32.2
0°-40°	2508.4	51.2
0°-60°	4146.0	84.6
0°-90°	4899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2116	2115	2107	2096	2089	200
15°	1994	1999	1994	1985	1971	562
25°	1771	1785	1793	1780	1765	811
35°	1424	1444	1510	1518	1512	892
45°	1103	1122	1158	1211	1218	851
55°	772	786	824	869	894	689
65°	453	465	492	527	558	449
75°	182	191	205	215	227	198
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°	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2124.4	2125.2	2120.3	2107.3	2099.2
5°	2116.2	2115.4	2107.3	2095.9	2089.4
7.5°	2092.6	2094.3	2091.8	2075.6	2066.6
10°	2069.9	2070.7	2064.2	2051.1	2040.6
12.5°	2040.6	2039.7	2030.8	2024.3	2007.2
15°	1994.2	1999.0	1994.2	1985.2	1971.4
17.5°	1949.4	1949.4	1952.6	1937.2	1926.6
20°	1898.9	1901.4	1901.4	1889.2	1877.0
22.5°	1840.3	1847.6	1850.1	1837.1	1822.4
25°	1771.1	1785.0	1793.1	1780.1	1764.6
27.5°	1687.3	1708.5	1732.9	1723.1	1706.0
30°	1593.7	1624.6	1665.3	1657.2	1645.0
32.5°	1505.0	1535.9	1592.1	1588.8	1582.3
35°	1424.4	1443.9	1509.9	1518.0	1512.3
37.5°	1347.9	1365.8	1427.7	1446.4	1441.5
40°	1267.3	1286.8	1335.7	1369.1	1370.7
42.5°	1187.5	1206.3	1246.1	1294.2	1294.2
45°	1102.9	1121.6	1158.2	1211.1	1217.7
47.5°	1019.9	1039.4	1075.2	1128.1	1138.7
50°	938.5	956.4	992.2	1043.5	1059.8
52.5°	853.8	873.4	908.4	955.6	979.2
55°	772.4	785.5	823.7	869.3	894.5
57.5°	687.8	700.0	743.1	782.2	808.2
60°	606.4	621.9	655.2	695.1	725.2
62.5°	528.2	544.5	573.0	608.0	642.2
65°	452.6	464.8	492.4	527.4	557.6
67.5°	379.3	389.9	417.6	442.0	473.7
70°	305.2	319.1	339.4	363.0	383.4
72.5°	245.8	251.5	268.6	285.7	306.9
75°	181.5	191.3	205.1	214.9	227.1
77.5°	130.2	135.9	144.1	152.2	163.6
80°	87.1	89.5	96.9	98.5	107.4
82.5°	52.9	54.5	56.2	57.0	60.2
85°	28.5	28.5	28.5	26.9	26.9
87.5°	16.3	16.3	13.8	11.4	8.1
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)