

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: P555901

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-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: P555901
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-30-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
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

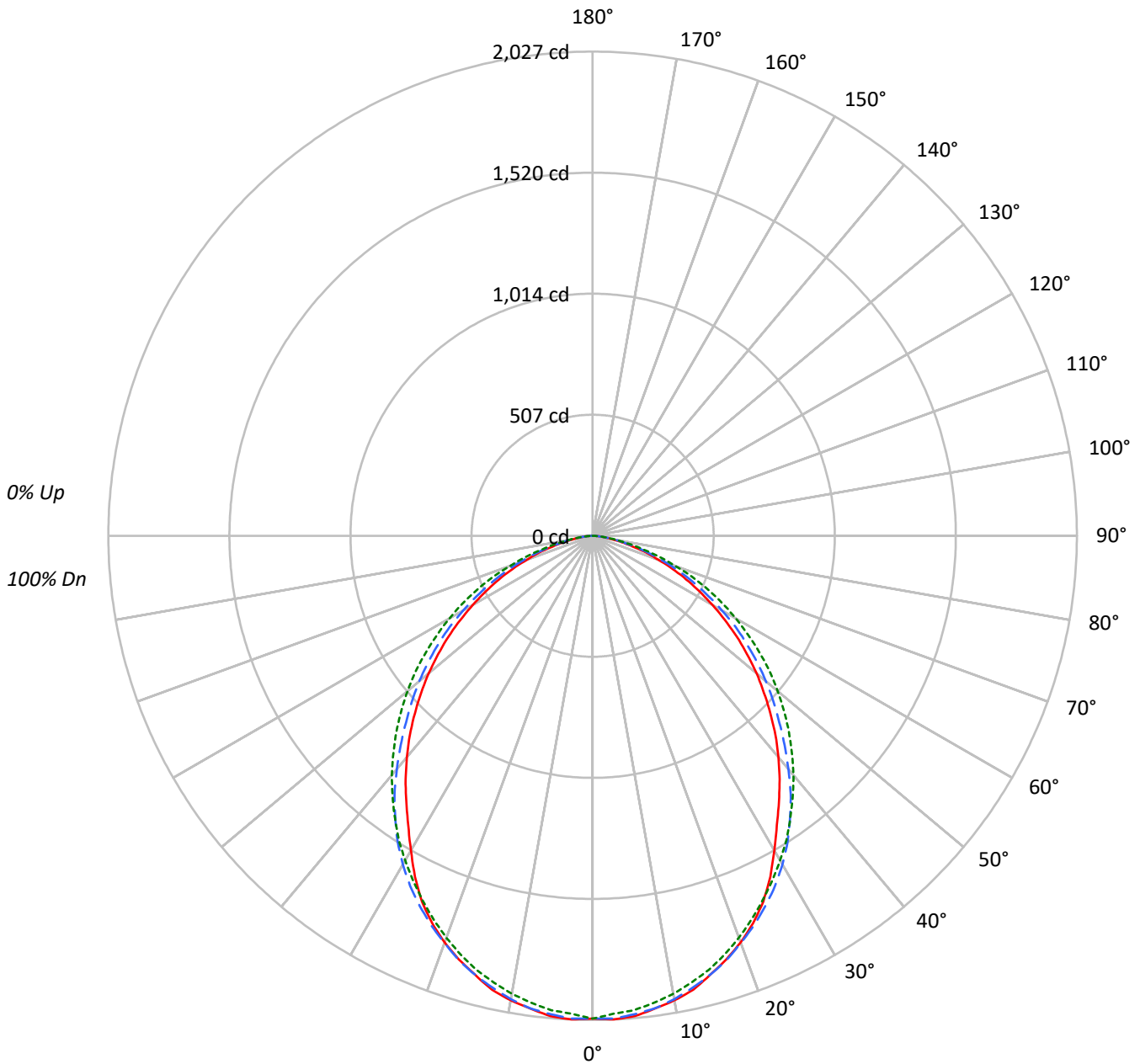
Lumens per Lamp: N/A
Luminaire Lumens: 4674.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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								
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°	10879	10879	10879
5°	10908	10862	10769
10°	10792	10763	10639
15°	10601	10601	10479
20°	10376	10389	10256
25°	10035	10159	9998
30°	9449	9874	9753
35°	8929	9464	9479
40°	8495	8953	9187
45°	8009	8410	8842
50°	7497	7926	8466
55°	6915	7374	8008
60°	6227	6729	7448
65°	5499	5983	6774
70°	4582	5095	5756
75°	3602	4069	4506
80°	2576	2864	3177
85°	1680	1680	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	4.1
10°-20°	534.7	11.4
20°-30°	781.3	16.7
30°-40°	886.9	19.0
40°-50°	856.1	18.3
50°-60°	706.3	15.1
60°-70°	470.3	10.1
70°-80°	210.5	4.5
80°-90°	37.7	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°	1506.3	32.2
0°-40°	2393.2	51.2
0°-60°	3955.6	84.6
0°-90°	4674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	2019	2018	2010	2000	1993	191
15°	1903	1907	1903	1894	1881	536
25°	1690	1703	1711	1698	1684	774
35°	1359	1378	1440	1448	1443	851
45°	1052	1070	1105	1156	1162	812
55°	737	749	786	829	853	658
65°	432	443	470	503	532	428
75°	173	182	196	205	217	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2021.4	2021.4	2021.4	2021.4	2021.4
2.5°	2026.8	2027.6	2022.9	2010.5	2002.7
5°	2019.1	2018.3	2010.5	1999.6	1993.4
7.5°	1996.5	1998.1	1995.8	1980.2	1971.7
10°	1974.8	1975.6	1969.4	1956.9	1946.8
12.5°	1946.8	1946.1	1937.5	1931.3	1915.0
15°	1902.6	1907.2	1902.6	1894.0	1880.8
17.5°	1859.9	1859.9	1863.0	1848.2	1838.1
20°	1811.7	1814.0	1814.0	1802.4	1790.7
22.5°	1755.8	1762.8	1765.1	1752.7	1738.7
25°	1689.8	1703.0	1710.8	1698.3	1683.6
27.5°	1609.8	1630.0	1653.3	1644.0	1627.7
30°	1520.5	1550.0	1588.8	1581.1	1569.4
32.5°	1435.9	1465.4	1519.0	1515.8	1509.6
35°	1359.0	1377.6	1440.5	1448.3	1442.8
37.5°	1286.0	1303.1	1362.1	1379.9	1375.3
40°	1209.1	1227.7	1274.3	1306.2	1307.7
42.5°	1133.0	1150.9	1188.9	1234.7	1234.7
45°	1052.2	1070.1	1105.0	1155.5	1161.7
47.5°	973.0	991.7	1025.8	1076.3	1086.4
50°	895.4	912.5	946.6	995.5	1011.1
52.5°	814.6	833.2	866.6	911.7	934.2
55°	737.0	749.4	785.9	829.4	853.4
57.5°	656.2	667.8	709.0	746.3	771.1
60°	578.5	593.3	625.1	663.2	691.9
62.5°	504.0	519.5	546.7	580.1	612.7
65°	431.8	443.4	469.8	503.2	531.9
67.5°	361.9	372.0	398.4	421.7	452.0
70°	291.2	304.4	323.8	346.3	365.8
72.5°	234.5	240.0	256.3	272.6	292.8
75°	173.2	182.5	195.7	205.0	216.7
77.5°	124.2	129.7	137.5	145.2	156.1
80°	83.1	85.4	92.4	94.0	102.5
82.5°	50.5	52.0	53.6	54.4	57.5
85°	27.2	27.2	27.2	25.6	25.6
87.5°	15.5	15.5	13.2	10.9	7.8
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)