

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: P555402

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-94-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: P555402
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-30-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

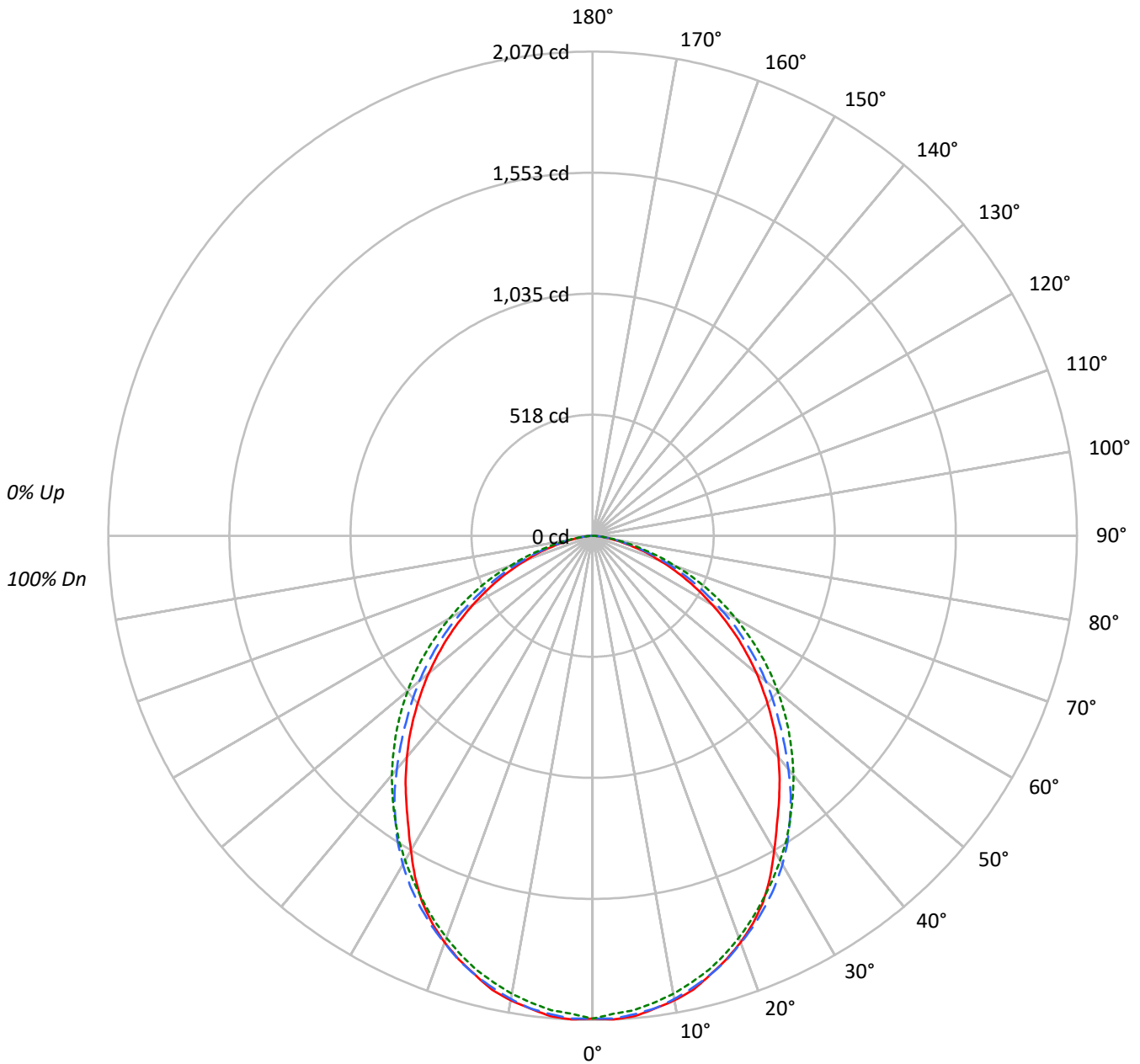
Lumens per Lamp: N/A
Luminaire Lumens: 4773.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	11109	11109	11109
5°	11139	11092	10998
10°	11021	10991	10865
15°	10825	10825	10702
20°	10596	10610	10474
25°	10247	10374	10209
30°	9649	10083	9960
35°	9118	9665	9680
40°	8675	9142	9382
45°	8178	8589	9029
50°	7655	8094	8645
55°	7062	7530	8177
60°	6359	6872	7606
65°	5615	6110	6918
70°	4680	5204	5877
75°	3676	4155	4600
80°	2631	2926	3245
85°	1717	1717	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	4.1
10°-20°	546.0	11.4
20°-30°	797.9	16.7
30°-40°	905.7	19.0
40°-50°	874.3	18.3
50°-60°	721.2	15.1
60°-70°	480.3	10.1
70°-80°	214.9	4.5
80°-90°	38.5	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°	1538.2	32.2
0°-40°	2443.9	51.2
0°-60°	4039.4	84.6
0°-90°	4773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	2062	2061	2053	2042	2036	195
15°	1943	1948	1943	1934	1921	548
25°	1726	1739	1747	1734	1719	790
35°	1388	1407	1471	1479	1473	870
45°	1074	1093	1128	1180	1186	829
55°	753	765	802	847	872	672
65°	441	453	480	514	543	437
75°	177	186	200	209	221	193
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2064.2	2064.2	2064.2	2064.2	2064.2
2.5°	2069.8	2070.5	2065.8	2053.1	2045.2
5°	2061.8	2061.0	2053.1	2042.0	2035.7
7.5°	2038.8	2040.4	2038.0	2022.2	2013.4
10°	2016.6	2017.4	2011.1	1998.4	1988.1
12.5°	1988.1	1987.3	1978.6	1972.2	1955.6
15°	1942.9	1947.6	1942.9	1934.1	1920.7
17.5°	1899.3	1899.3	1902.4	1887.4	1877.0
20°	1850.1	1852.5	1852.5	1840.6	1828.7
22.5°	1793.0	1800.1	1802.5	1789.8	1775.5
25°	1725.6	1739.1	1747.0	1734.3	1719.2
27.5°	1643.9	1664.5	1688.3	1678.8	1662.1
30°	1552.7	1582.8	1622.5	1614.6	1602.7
32.5°	1466.3	1496.4	1551.1	1548.0	1541.6
35°	1387.8	1406.8	1471.0	1479.0	1473.4
37.5°	1313.2	1330.7	1390.9	1409.2	1404.4
40°	1234.7	1253.7	1301.3	1333.8	1335.4
42.5°	1157.0	1175.2	1214.1	1260.9	1260.9
45°	1074.5	1092.8	1128.5	1180.0	1186.3
47.5°	993.6	1012.7	1047.6	1099.1	1109.4
50°	914.3	931.8	966.7	1016.6	1032.5
52.5°	831.9	850.9	885.0	931.0	954.0
55°	752.6	765.3	802.5	846.9	871.5
57.5°	670.1	682.0	724.0	762.1	787.5
60°	590.8	605.9	638.4	677.2	706.6
62.5°	514.7	530.5	558.3	592.4	625.7
65°	440.9	452.8	479.8	513.9	543.2
67.5°	369.5	379.9	406.8	430.6	461.5
70°	297.4	310.9	330.7	353.7	373.5
72.5°	239.5	245.0	261.7	278.3	299.0
75°	176.8	186.4	199.8	209.4	221.2
77.5°	126.9	132.4	140.4	148.3	159.4
80°	84.9	87.2	94.4	96.0	104.7
82.5°	51.5	53.1	54.7	55.5	58.7
85°	27.8	27.8	27.8	26.2	26.2
87.5°	15.9	15.9	13.5	11.1	7.9
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)