

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: P555490

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-85-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: P555490
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-35-UNV-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

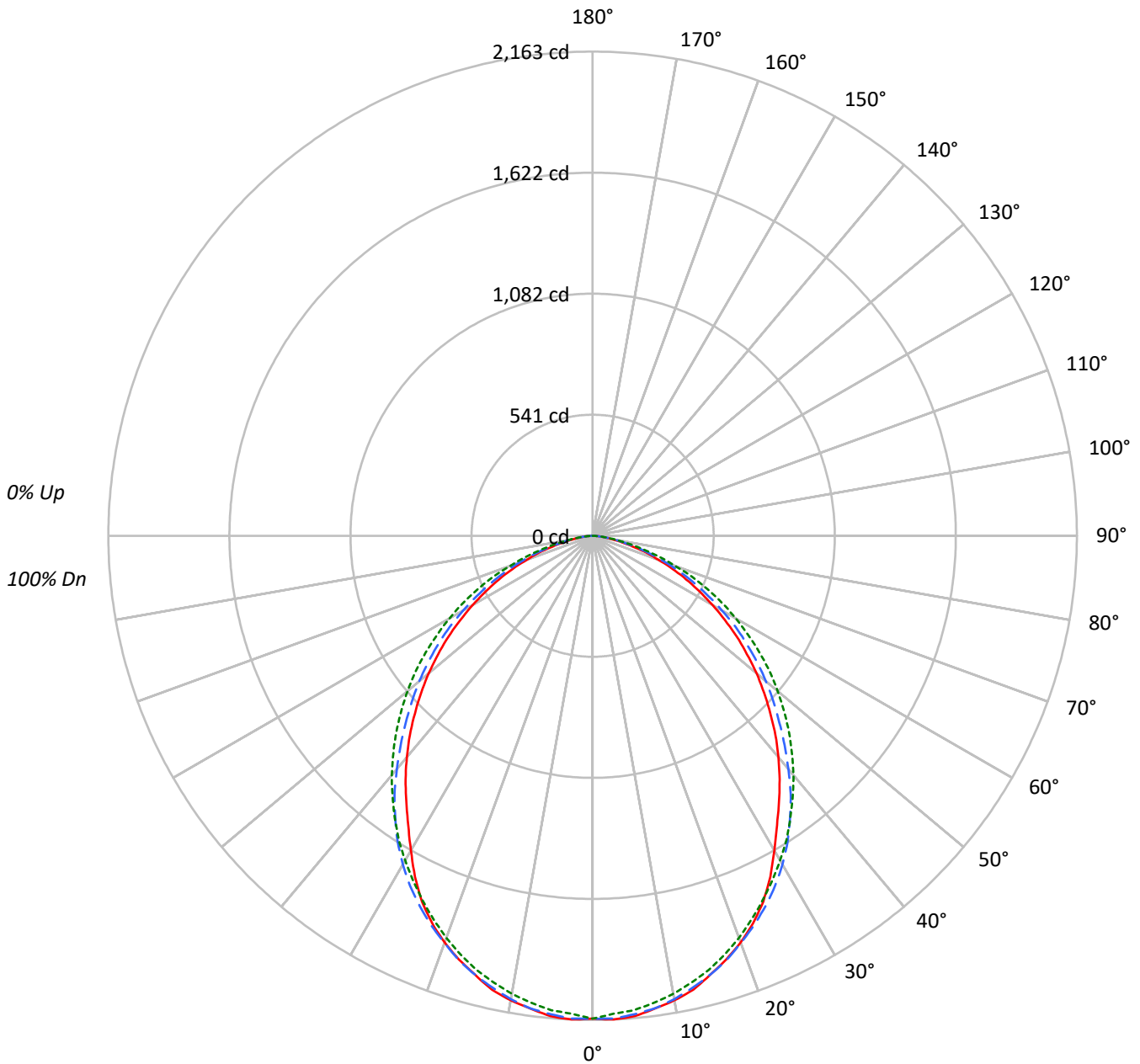
Lumens per Lamp: N/A
Luminaire Lumens: 4988.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11610	11610	11610
5°	11641	11592	11493
10°	11517	11486	11354
15°	11313	11313	11184
20°	11073	11088	10945
25°	10709	10842	10669
30°	10084	10537	10409
35°	9529	10100	10117
40°	9065	9554	9805
45°	8547	8976	9436
50°	8000	8458	9034
55°	7380	7870	8546
60°	6646	7181	7948
65°	5868	6385	7230
70°	4891	5438	6142
75°	3843	4342	4808
80°	2749	3056	3391
85°	1791	1791	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	4.1
10°-20°	570.6	11.4
20°-30°	833.8	16.7
30°-40°	946.5	19.0
40°-50°	913.7	18.3
50°-60°	753.7	15.1
60°-70°	501.9	10.1
70°-80°	224.6	4.5
80°-90°	40.2	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°	1607.5	32.2
0°-40°	2554.0	51.2
0°-60°	4221.3	84.6
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2155	2154	2146	2134	2127	204
15°	2030	2035	2030	2021	2007	572
25°	1803	1817	1826	1812	1797	826
35°	1450	1470	1537	1546	1540	909
45°	1123	1142	1179	1233	1240	866
55°	786	800	839	885	911	702
65°	461	473	501	537	568	457
75°	185	195	209	219	231	202
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2163.0	2163.8	2158.8	2145.6	2137.3
5°	2154.7	2153.9	2145.6	2134.0	2127.3
7.5°	2130.7	2132.3	2129.8	2113.3	2104.1
10°	2107.5	2108.3	2101.7	2088.4	2077.6
12.5°	2077.6	2076.8	2067.7	2061.0	2043.6
15°	2030.4	2035.4	2030.4	2021.3	2007.2
17.5°	1984.8	1984.8	1988.1	1972.4	1961.6
20°	1933.4	1935.9	1935.9	1923.5	1911.0
22.5°	1873.8	1881.2	1883.7	1870.4	1855.5
25°	1803.3	1817.4	1825.7	1812.4	1796.7
27.5°	1718.0	1739.5	1764.4	1754.4	1737.0
30°	1622.7	1654.1	1695.6	1687.3	1674.9
32.5°	1532.3	1563.8	1621.0	1617.7	1611.0
35°	1450.3	1470.2	1537.3	1545.6	1539.8
37.5°	1372.4	1390.6	1453.6	1472.7	1467.7
40°	1290.3	1310.2	1359.9	1393.9	1395.6
42.5°	1209.1	1228.2	1268.8	1317.7	1317.7
45°	1122.9	1142.0	1179.3	1233.1	1239.8
47.5°	1038.4	1058.3	1094.8	1148.6	1159.4
50°	955.5	973.8	1010.2	1062.4	1079.0
52.5°	869.3	889.2	924.9	972.9	997.0
55°	786.5	799.7	838.7	885.1	910.8
57.5°	700.3	712.7	756.6	796.4	822.9
60°	617.4	633.1	667.1	707.7	738.4
62.5°	537.8	554.4	583.4	619.1	653.9
65°	460.8	473.2	501.4	537.0	567.7
67.5°	386.2	397.0	425.1	450.0	482.3
70°	310.8	324.9	345.6	369.6	390.3
72.5°	250.3	256.1	273.5	290.9	312.4
75°	184.8	194.8	208.8	218.8	231.2
77.5°	132.6	138.4	146.7	155.0	166.6
80°	88.7	91.2	98.6	100.3	109.4
82.5°	53.9	55.5	57.2	58.0	61.3
85°	29.0	29.0	29.0	27.3	27.3
87.5°	16.6	16.6	14.1	11.6	8.3
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)