

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: P556065

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-93-84-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: P556065
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

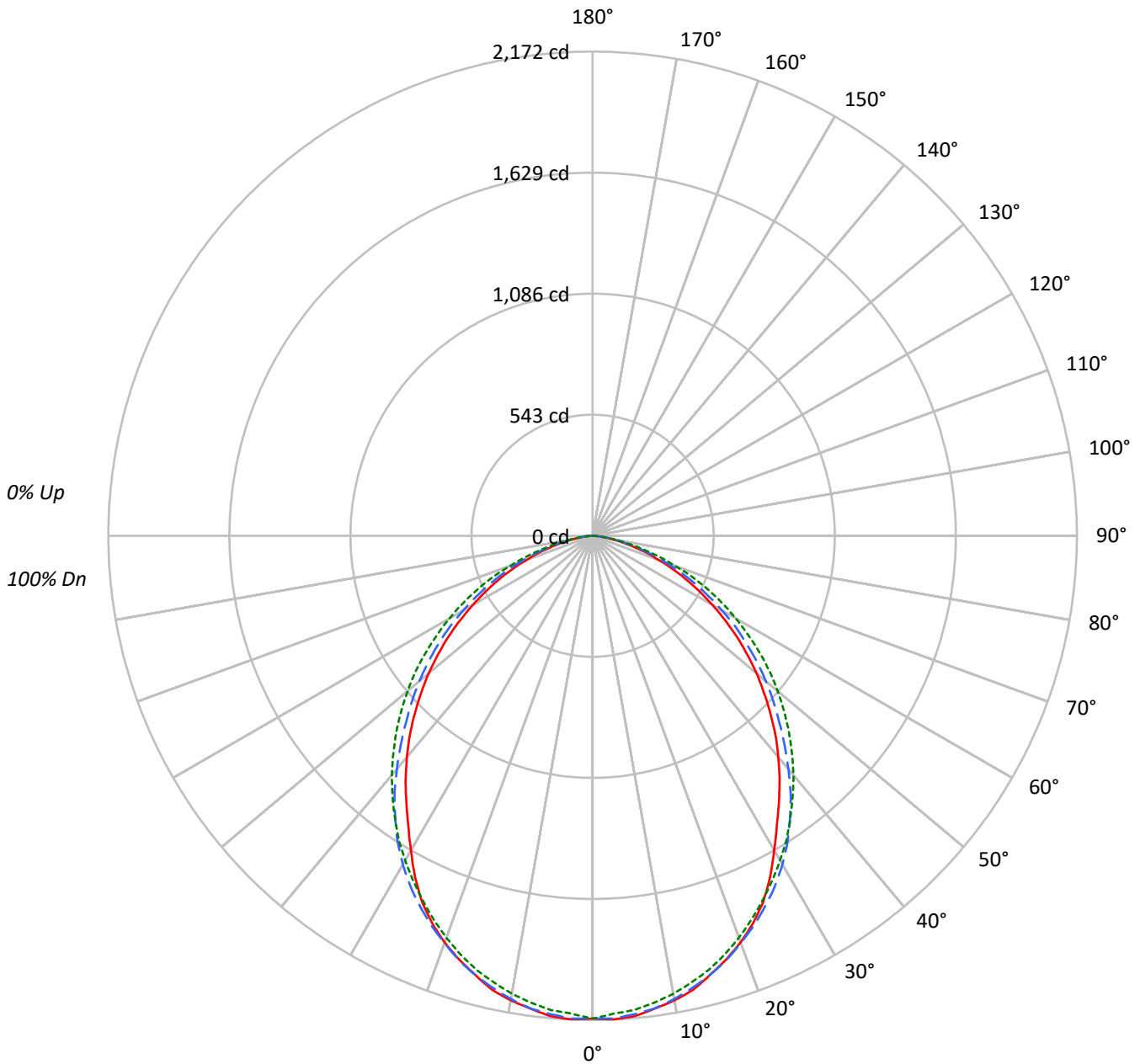
Lumens per Lamp: N/A
Luminaire Lumens: 5008.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11656	11656	11656
5°	11687	11638	11539
10°	11563	11532	11400
15°	11358	11358	11228
20°	11118	11132	10989
25°	10751	10885	10712
30°	10125	10580	10450
35°	9567	10141	10157
40°	9102	9593	9844
45°	8581	9012	9474
50°	8033	8493	9070
55°	7409	7901	8580
60°	6673	7210	7980
65°	5891	6411	7259
70°	4910	5460	6167
75°	3857	4361	4826
80°	2758	3068	3403
85°	1797	1797	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	4.1
10°-20°	572.9	11.4
20°-30°	837.2	16.7
30°-40°	950.3	19.0
40°-50°	917.3	18.3
50°-60°	756.7	15.1
60°-70°	503.9	10.1
70°-80°	225.5	4.5
80°-90°	40.3	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°	1613.9	32.2
0°-40°	2564.2	51.2
0°-60°	4238.3	84.6
0°-90°	5008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2163	2162	2154	2142	2136	205
15°	2038	2044	2038	2029	2015	575
25°	1810	1825	1833	1820	1804	829
35°	1456	1476	1544	1552	1546	912
45°	1127	1147	1184	1238	1245	870
55°	790	803	842	889	914	705
65°	463	475	503	539	570	459
75°	186	196	210	220	232	203
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2171.7	2172.5	2167.5	2154.2	2145.9
5°	2163.3	2162.5	2154.2	2142.5	2135.9
7.5°	2139.2	2140.9	2138.4	2121.7	2112.6
10°	2115.9	2116.7	2110.1	2096.8	2086.0
12.5°	2086.0	2085.1	2076.0	2069.3	2051.8
15°	2038.5	2043.5	2038.5	2029.4	2015.2
17.5°	1992.8	1992.8	1996.1	1980.3	1969.5
20°	1941.2	1943.7	1943.7	1931.2	1918.7
22.5°	1881.3	1888.8	1891.3	1877.9	1863.0
25°	1810.5	1824.7	1833.0	1819.7	1803.9
27.5°	1724.8	1746.5	1771.4	1761.5	1744.0
30°	1629.2	1660.8	1702.4	1694.1	1681.6
32.5°	1538.5	1570.1	1627.5	1624.2	1617.5
35°	1456.1	1476.1	1543.5	1551.8	1546.0
37.5°	1377.9	1396.2	1459.4	1478.6	1473.6
40°	1295.5	1315.5	1365.4	1399.5	1401.2
42.5°	1214.0	1233.1	1273.9	1323.0	1323.0
45°	1127.4	1146.6	1184.0	1238.1	1244.7
47.5°	1042.6	1062.5	1099.1	1153.2	1164.0
50°	959.4	977.7	1014.3	1066.7	1083.3
52.5°	872.8	892.8	928.6	976.8	1001.0
55°	789.6	802.9	842.0	888.6	914.4
57.5°	703.1	715.6	759.7	799.6	826.2
60°	619.9	635.7	669.8	710.6	741.4
62.5°	540.0	556.6	585.8	621.5	656.5
65°	462.6	475.1	503.4	539.2	570.0
67.5°	387.7	398.6	426.8	451.8	484.3
70°	312.0	326.2	347.0	371.1	391.9
72.5°	251.3	257.1	274.6	292.1	313.7
75°	185.5	195.5	209.7	219.7	232.1
77.5°	133.1	139.0	147.3	155.6	167.2
80°	89.0	91.5	99.0	100.7	109.8
82.5°	54.1	55.7	57.4	58.2	61.6
85°	29.1	29.1	29.1	27.5	27.5
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)