

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: P555552

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-84-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: P555552
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-40-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

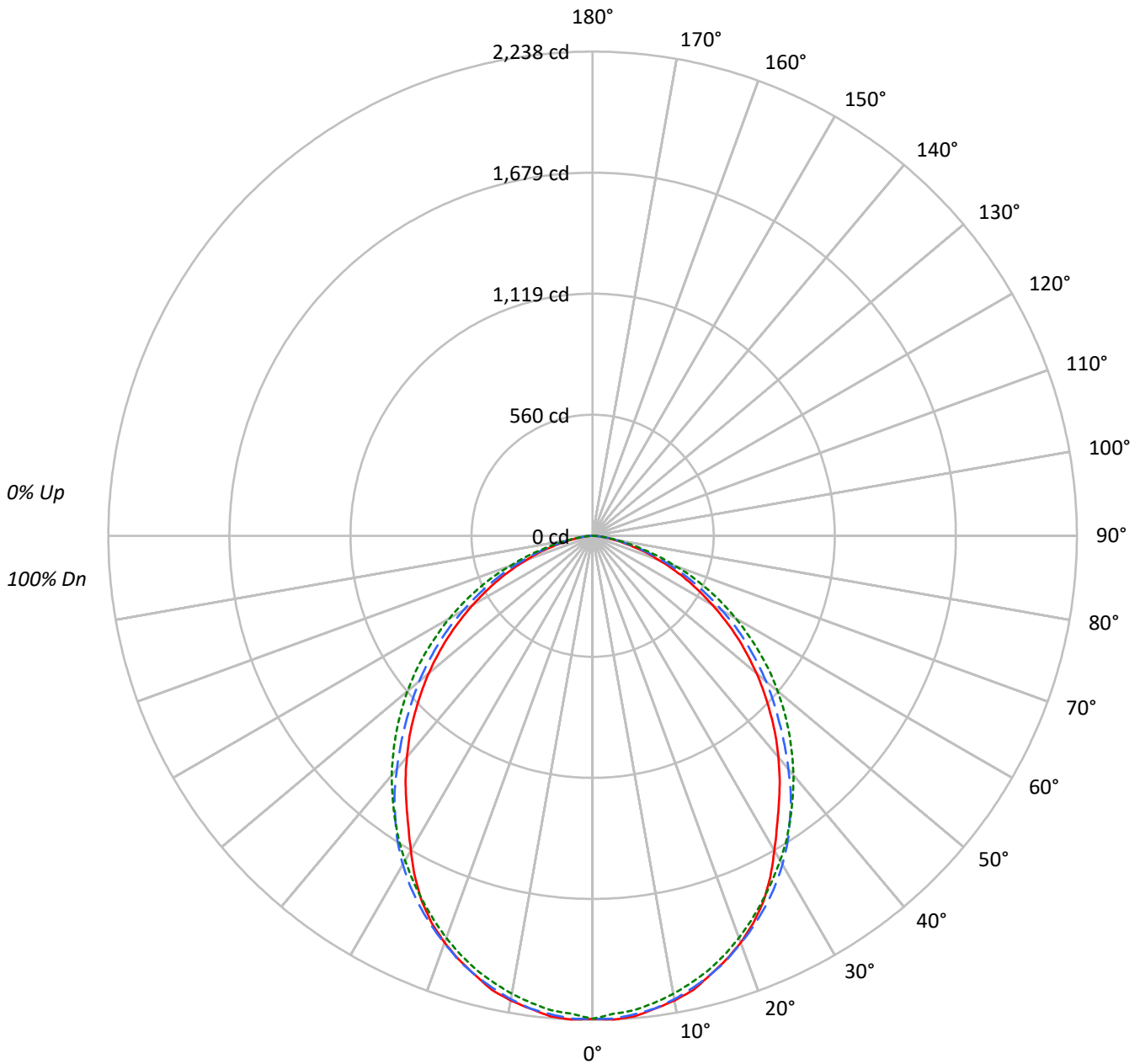
Lumens per Lamp: N/A
Luminaire Lumens: 5162.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12015	12015	12015
5°	12047	11996	11894
10°	11919	11886	11750
15°	11707	11707	11574
20°	11460	11474	11327
25°	11082	11220	11042
30°	10436	10905	10772
35°	9861	10452	10470
40°	9381	9888	10147
45°	8845	9289	9765
50°	8280	8754	9349
55°	7637	8144	8844
60°	6877	7431	8226
65°	6072	6608	7482
70°	5061	5627	6356
75°	3978	4494	4976
80°	2845	3164	3508
85°	1853	1853	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	4.1
10°-20°	590.5	11.4
20°-30°	862.9	16.7
30°-40°	979.5	19.0
40°-50°	945.5	18.3
50°-60°	780.0	15.1
60°-70°	519.4	10.1
70°-80°	232.4	4.5
80°-90°	41.6	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°	1663.6	32.2
0°-40°	2643.0	51.2
0°-60°	4368.5	84.6
0°-90°	5162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2232	2232	2232	2232	2232	
5°	2230	2229	2220	2208	2202	211
15°	2101	2106	2101	2092	2077	592
25°	1866	1881	1889	1876	1859	855
35°	1501	1521	1591	1600	1594	940
45°	1162	1182	1220	1276	1283	897
55°	814	828	868	916	942	726
65°	477	490	519	556	588	473
75°	191	202	216	226	239	209
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2238.4	2239.3	2234.1	2220.4	2211.8
5°	2229.9	2229.0	2220.4	2208.4	2201.6
7.5°	2205.0	2206.7	2204.1	2187.0	2177.5
10°	2181.0	2181.8	2175.0	2161.2	2150.1
12.5°	2150.1	2149.2	2139.8	2132.9	2114.9
15°	2101.2	2106.4	2101.2	2091.8	2077.2
17.5°	2054.0	2054.0	2057.5	2041.2	2030.0
20°	2000.9	2003.4	2003.4	1990.6	1977.7
22.5°	1939.1	1946.8	1949.4	1935.7	1920.3
25°	1866.2	1880.8	1889.4	1875.7	1859.4
27.5°	1777.9	1800.2	1825.9	1815.6	1797.6
30°	1679.3	1711.8	1754.7	1746.2	1733.3
32.5°	1585.8	1618.4	1677.5	1674.1	1667.2
35°	1500.9	1521.4	1590.9	1599.5	1593.5
37.5°	1420.2	1439.1	1504.3	1524.0	1518.9
40°	1335.3	1355.9	1407.4	1442.5	1444.3
42.5°	1251.3	1271.0	1313.0	1363.6	1363.6
45°	1162.1	1181.8	1220.4	1276.2	1283.0
47.5°	1074.6	1095.2	1132.9	1188.7	1199.8
50°	988.9	1007.7	1045.5	1099.5	1116.6
52.5°	899.7	920.2	957.1	1006.9	1031.7
55°	813.9	827.6	867.9	916.0	942.5
57.5°	724.7	737.6	783.0	824.2	851.6
60°	638.9	655.2	690.4	732.4	764.2
62.5°	556.6	573.8	603.8	640.7	676.7
65°	476.8	489.7	518.9	555.7	587.5
67.5°	399.7	410.8	440.0	465.7	499.1
70°	321.6	336.2	357.6	382.5	403.9
72.5°	259.0	265.0	283.0	301.0	323.3
75°	191.3	201.5	216.1	226.4	239.3
77.5°	137.2	143.2	151.8	160.4	172.4
80°	91.8	94.3	102.1	103.8	113.2
82.5°	55.7	57.5	59.2	60.0	63.5
85°	30.0	30.0	30.0	28.3	28.3
87.5°	17.2	17.2	14.6	12.0	8.6
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)