

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: P555610

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-94-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: P555610
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-50-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

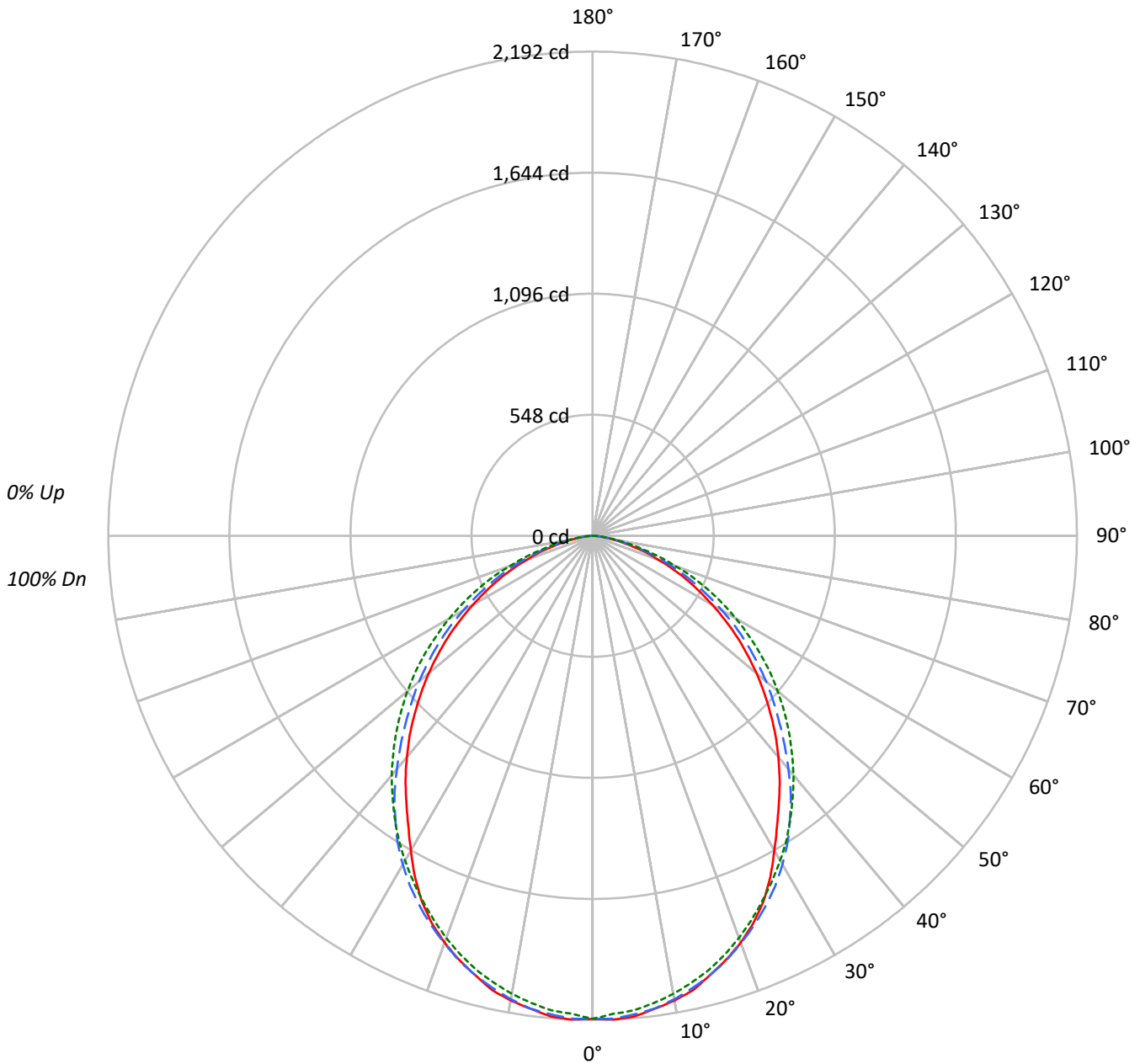
Lumens per Lamp: N/A
Luminaire Lumens: 5056.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11768	11768	11768
5°	11800	11749	11649
10°	11674	11642	11509
15°	11467	11467	11336
20°	11224	11239	11094
25°	10855	10989	10815
30°	10222	10681	10550
35°	9658	10238	10255
40°	9189	9685	9938
45°	8663	9098	9565
50°	8110	8574	9157
55°	7480	7977	8663
60°	6736	7279	8057
65°	5948	6472	7328
70°	4957	5512	6227
75°	3895	4402	4874
80°	2786	3099	3437
85°	1815	1815	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	4.1
10°-20°	578.4	11.4
20°-30°	845.2	16.7
30°-40°	959.4	19.0
40°-50°	926.1	18.3
50°-60°	764.0	15.1
60°-70°	508.8	10.1
70°-80°	227.7	4.5
80°-90°	40.7	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°	1629.4	32.2
0°-40°	2588.8	51.2
0°-60°	4278.9	84.6
0°-90°	5056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2184	2183	2175	2163	2156	207
15°	2058	2063	2058	2049	2034	580
25°	1828	1842	1851	1837	1821	837
35°	1470	1490	1558	1567	1561	921
45°	1138	1158	1195	1250	1257	878
55°	797	811	850	897	923	712
65°	467	480	508	544	575	463
75°	187	197	212	222	234	205
85°	29	29	29	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2192.5	2193.3	2188.3	2174.8	2166.4
5°	2184.1	2183.2	2174.8	2163.1	2156.3
7.5°	2159.7	2161.4	2158.9	2142.1	2132.8
10°	2136.2	2137.0	2130.3	2116.9	2105.9
12.5°	2105.9	2105.1	2095.9	2089.1	2071.5
15°	2058.1	2063.1	2058.1	2048.8	2034.5
17.5°	2011.9	2011.9	2015.2	1999.3	1988.3
20°	1959.8	1962.3	1962.3	1949.7	1937.1
22.5°	1899.3	1906.9	1909.4	1895.9	1880.8
25°	1827.9	1842.2	1850.6	1837.1	1821.2
27.5°	1741.4	1763.2	1788.4	1778.3	1760.7
30°	1644.8	1676.7	1718.7	1710.3	1697.7
32.5°	1553.2	1585.1	1643.1	1639.7	1633.0
35°	1470.0	1490.2	1558.2	1566.6	1560.8
37.5°	1391.1	1409.6	1473.4	1492.7	1487.7
40°	1307.9	1328.1	1378.5	1412.9	1414.6
42.5°	1225.6	1244.9	1286.1	1335.6	1335.6
45°	1138.2	1157.6	1195.4	1250.0	1256.7
47.5°	1052.6	1072.7	1109.7	1164.3	1175.2
50°	968.6	987.0	1024.0	1076.9	1093.7
52.5°	881.2	901.3	937.5	986.2	1010.6
55°	797.2	810.6	850.1	897.1	923.2
57.5°	709.8	722.4	766.9	807.3	834.1
60°	625.8	641.8	676.2	717.4	748.5
62.5°	545.2	562.0	591.4	627.5	662.8
65°	467.1	479.7	508.2	544.3	575.4
67.5°	391.5	402.4	430.9	456.1	488.9
70°	315.0	329.3	350.3	374.7	395.7
72.5°	253.7	259.6	277.2	294.8	316.7
75°	187.3	197.4	211.7	221.8	234.4
77.5°	134.4	140.3	148.7	157.1	168.8
80°	89.9	92.4	100.0	101.6	110.9
82.5°	54.6	56.3	58.0	58.8	62.2
85°	29.4	29.4	29.4	27.7	27.7
87.5°	16.8	16.8	14.3	11.8	8.4
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)