

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: P555592

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-88-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: P555592
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-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

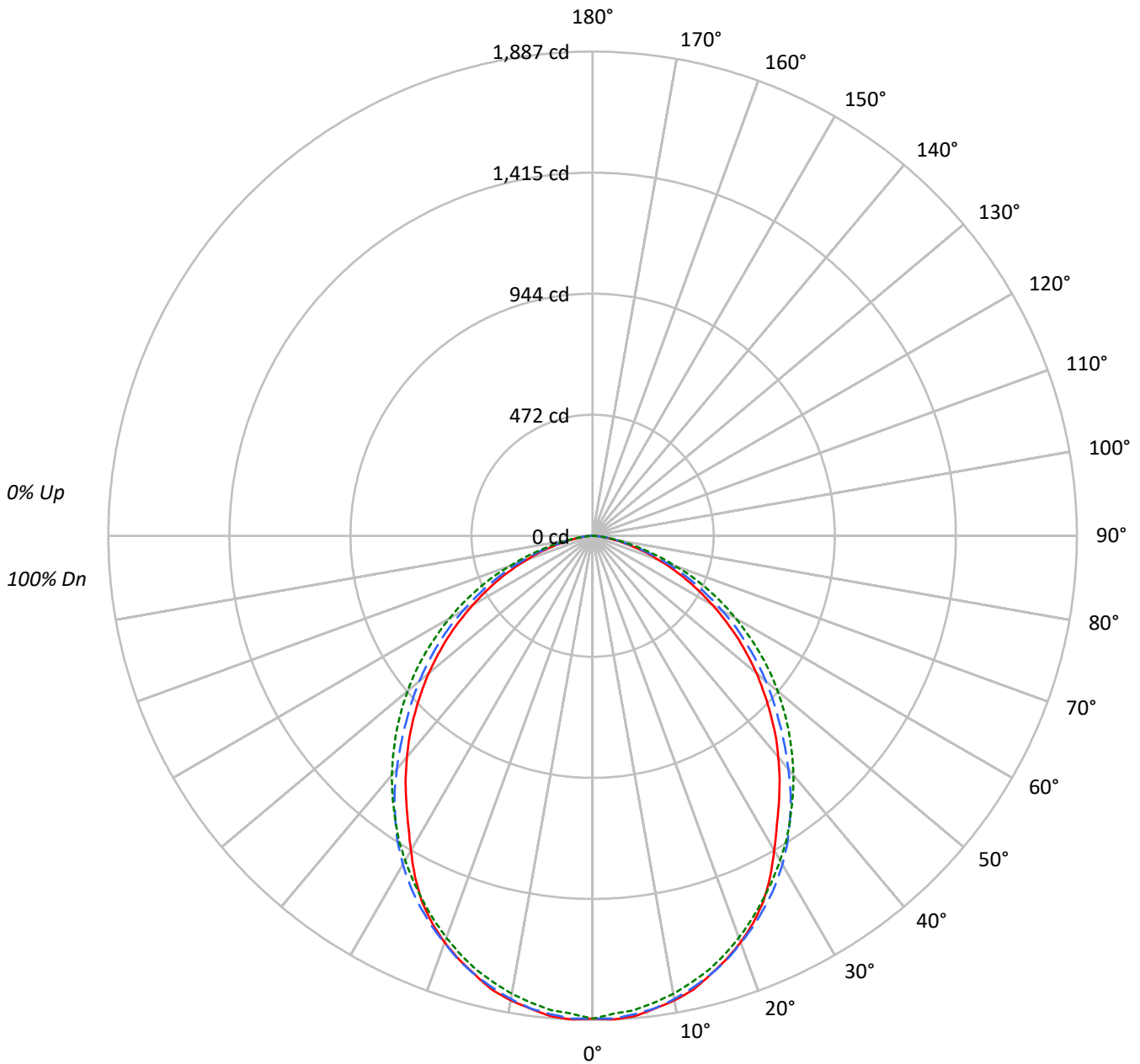
Lumens per Lamp: N/A
Luminaire Lumens: 4351.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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°	10127	10127	10127
5°	10154	10111	10025
10°	10046	10019	9904
15°	9868	9868	9756
20°	9659	9672	9548
25°	9341	9457	9307
30°	8796	9191	9079
35°	8312	8811	8824
40°	7907	8335	8553
45°	7455	7830	8232
50°	6979	7378	7881
55°	6437	6865	7455
60°	5797	6264	6933
65°	5118	5570	6306
70°	4266	4743	5358
75°	3352	3789	4194
80°	2396	2665	2957
85°	1562	1562	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	4.1
10°-20°	497.7	11.4
20°-30°	727.3	16.7
30°-40°	825.6	19.0
40°-50°	797.0	18.3
50°-60°	657.5	15.1
60°-70°	437.8	10.1
70°-80°	195.9	4.5
80°-90°	35.1	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°	1402.2	32.2
0°-40°	2227.8	51.2
0°-60°	3682.2	84.6
0°-90°	4351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1880	1879	1872	1862	1856	178
15°	1771	1775	1771	1763	1751	499
25°	1573	1585	1592	1581	1567	720
35°	1265	1282	1341	1348	1343	793
45°	980	996	1029	1076	1082	756
55°	686	698	732	772	794	612
65°	402	413	437	468	495	399
75°	161	170	182	191	202	176
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	1886.8	1887.5	1883.1	1871.6	1864.3
5°	1879.5	1878.8	1871.6	1861.5	1855.7
7.5°	1858.6	1860.0	1857.8	1843.4	1835.4
10°	1838.3	1839.0	1833.3	1821.7	1812.3
12.5°	1812.3	1811.6	1803.6	1797.8	1782.7
15°	1771.1	1775.4	1771.1	1763.1	1750.9
17.5°	1731.3	1731.3	1734.2	1720.5	1711.1
20°	1686.5	1688.7	1688.7	1677.8	1667.0
22.5°	1634.5	1641.0	1643.1	1631.6	1618.6
25°	1573.0	1585.3	1592.5	1581.0	1567.2
27.5°	1498.6	1517.4	1539.0	1530.4	1515.2
30°	1415.4	1442.9	1479.0	1471.8	1461.0
32.5°	1336.6	1364.1	1414.0	1411.1	1405.3
35°	1265.1	1282.4	1341.0	1348.2	1343.1
37.5°	1197.1	1213.0	1268.0	1284.6	1280.2
40°	1125.5	1142.9	1186.3	1215.9	1217.4
42.5°	1054.7	1071.3	1106.8	1149.4	1149.4
45°	979.5	996.1	1028.7	1075.7	1081.5
47.5°	905.8	923.1	954.9	1001.9	1011.3
50°	833.5	849.4	881.2	926.8	941.2
52.5°	758.3	775.7	806.8	848.7	869.6
55°	686.0	697.6	731.6	772.1	794.5
57.5°	610.8	621.7	660.0	694.7	717.8
60°	538.6	552.3	581.9	617.4	644.1
62.5°	469.2	483.6	508.9	540.0	570.4
65°	401.9	412.8	437.4	468.4	495.2
67.5°	336.9	346.3	370.8	392.5	420.7
70°	271.1	283.4	301.4	322.4	340.5
72.5°	218.3	223.4	238.6	253.7	272.5
75°	161.2	169.9	182.2	190.8	201.7
77.5°	115.7	120.7	128.0	135.2	145.3
80°	77.3	79.5	86.0	87.5	95.4
82.5°	47.0	48.4	49.9	50.6	53.5
85°	25.3	25.3	25.3	23.9	23.9
87.5°	14.5	14.5	12.3	10.1	7.2
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)