

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: P555496

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-88-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: P555496
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-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

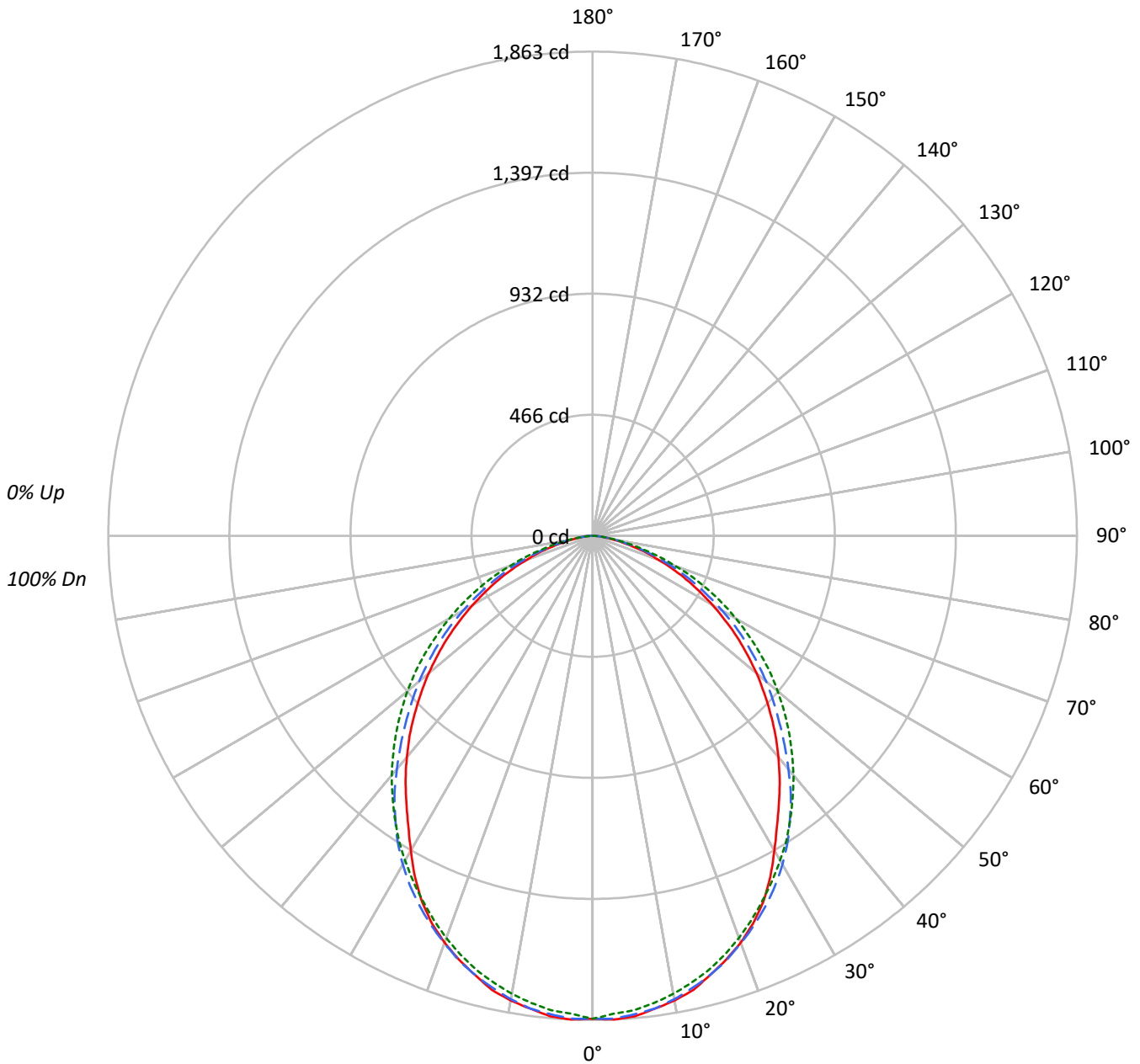
Lumens per Lamp: N/A
Luminaire Lumens: 4297.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10001	10001	10001
5°	10028	9985	9901
10°	9922	9894	9781
15°	9746	9746	9634
20°	9539	9552	9429
25°	9225	9340	9191
30°	8687	9078	8966
35°	8209	8701	8715
40°	7810	8231	8446
45°	7363	7732	8129
50°	6893	7287	7783
55°	6357	6779	7362
60°	5725	6186	6847
65°	5054	5500	6227
70°	4212	4685	5292
75°	3310	3741	4142
80°	2368	2634	2920
85°	1544	1544	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	4.1
10°-20°	491.5	11.4
20°-30°	718.3	16.7
30°-40°	815.3	19.0
40°-50°	787.1	18.3
50°-60°	649.3	15.1
60°-70°	432.4	10.1
70°-80°	193.5	4.5
80°-90°	34.6	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°	1384.8	32.2
0°-40°	2200.1	51.2
0°-60°	3636.5	84.6
0°-90°	4297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1856	1856	1848	1838	1833	176
15°	1749	1753	1749	1741	1729	493
25°	1554	1566	1573	1561	1548	711
35°	1249	1266	1324	1332	1326	783
45°	967	984	1016	1062	1068	746
55°	678	689	722	762	785	605
65°	397	408	432	463	489	394
75°	159	168	180	188	199	174
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°	1858.3	1858.3	1858.3	1858.3	1858.3
2.5°	1863.3	1864.1	1859.8	1848.3	1841.2
5°	1856.2	1855.5	1848.3	1838.4	1832.6
7.5°	1835.5	1836.9	1834.8	1820.5	1812.7
10°	1815.5	1816.2	1810.5	1799.1	1789.8
12.5°	1789.8	1789.1	1781.2	1775.5	1760.5
15°	1749.1	1753.4	1749.1	1741.3	1729.1
17.5°	1709.8	1709.8	1712.7	1699.1	1689.9
20°	1665.6	1667.7	1667.7	1657.0	1646.3
22.5°	1614.2	1620.6	1622.7	1611.3	1598.5
25°	1553.5	1565.6	1572.8	1561.3	1547.8
27.5°	1480.0	1498.5	1519.9	1511.4	1496.4
30°	1397.9	1425.0	1460.7	1453.5	1442.8
32.5°	1320.0	1347.2	1396.4	1393.6	1387.9
35°	1249.4	1266.5	1324.3	1331.5	1326.5
37.5°	1182.3	1198.0	1252.2	1268.6	1264.4
40°	1111.6	1128.7	1171.5	1200.8	1202.2
42.5°	1041.6	1058.0	1093.0	1135.1	1135.1
45°	967.4	983.8	1015.9	1062.3	1068.0
47.5°	894.5	911.7	943.1	989.5	998.8
50°	823.2	838.9	870.3	915.2	929.5
52.5°	748.9	766.0	796.7	838.1	858.8
55°	677.5	688.9	722.5	762.5	784.6
57.5°	603.3	614.0	651.8	686.1	708.9
60°	531.9	545.4	574.7	609.7	636.1
62.5°	463.3	477.6	502.6	533.3	563.3
65°	396.9	407.7	431.9	462.6	489.0
67.5°	332.7	342.0	366.2	387.7	415.5
70°	267.7	279.9	297.7	318.4	336.3
72.5°	215.6	220.6	235.6	250.6	269.1
75°	159.2	167.8	179.9	188.5	199.2
77.5°	114.2	119.2	126.4	133.5	143.5
80°	76.4	78.5	85.0	86.4	94.2
82.5°	46.4	47.8	49.3	50.0	52.8
85°	25.0	25.0	25.0	23.6	23.6
87.5°	14.3	14.3	12.1	10.0	7.1
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)