

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: P556026

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-94-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: P556026
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-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

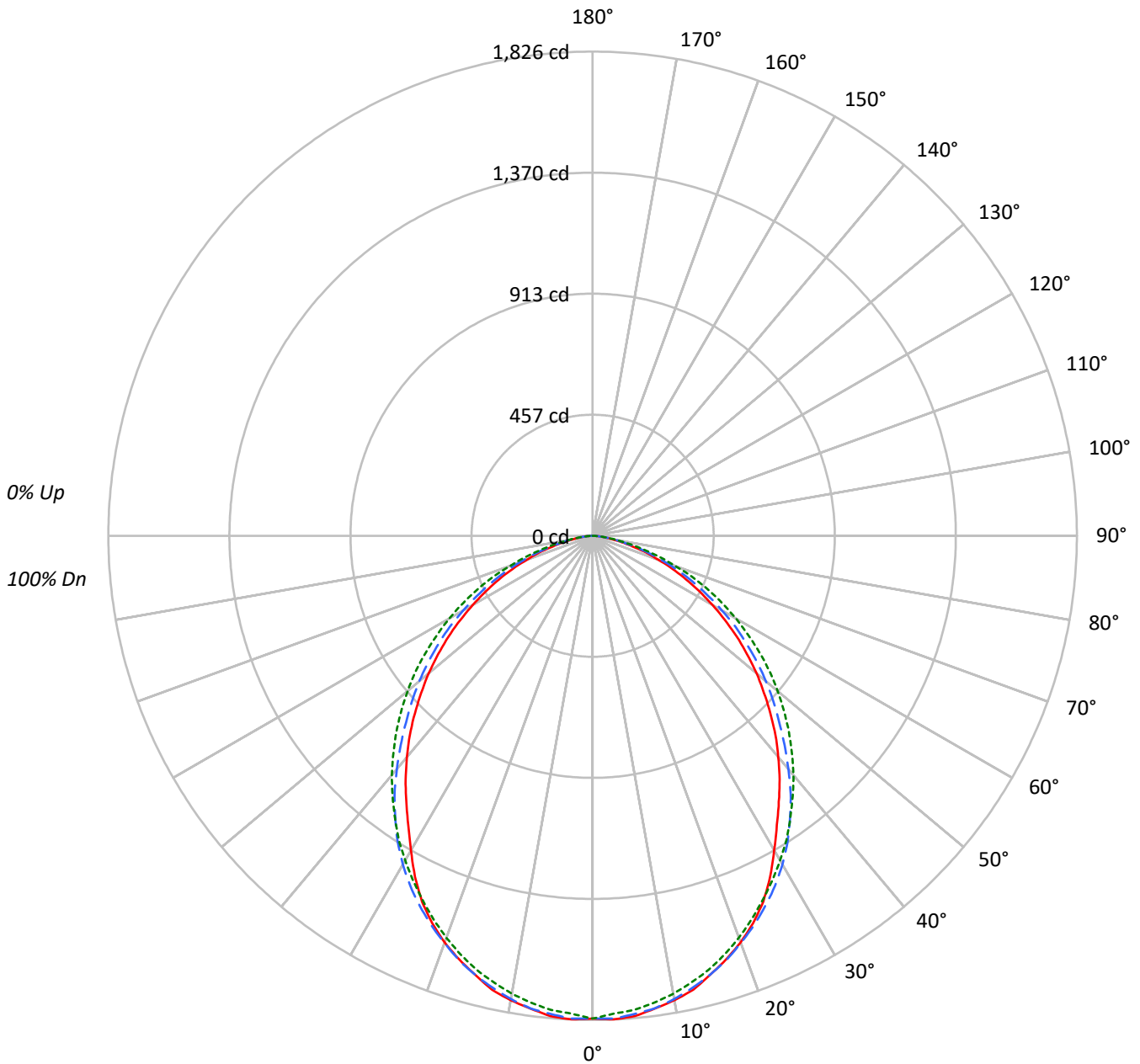
Lumens per Lamp: N/A
Luminaire Lumens: 4210.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9799	9799	9799
5°	9825	9783	9700
10°	9721	9694	9583
15°	9548	9548	9439
20°	9346	9359	9238
25°	9038	9150	9005
30°	8511	8894	8785
35°	8043	8525	8539
40°	7652	8064	8276
45°	7214	7575	7964
50°	6753	7140	7625
55°	6229	6642	7213
60°	5609	6061	6708
65°	4953	5389	6101
70°	4127	4590	5183
75°	3244	3666	4059
80°	2318	2579	2861
85°	1513	1513	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	4.1
10°-20°	481.6	11.4
20°-30°	703.8	16.7
30°-40°	798.8	19.0
40°-50°	771.2	18.3
50°-60°	636.1	15.1
60°-70°	423.6	10.1
70°-80°	189.6	4.5
80°-90°	33.9	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°	1356.8	32.2
0°-40°	2155.6	51.2
0°-60°	3562.9	84.6
0°-90°	4210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1819	1818	1811	1801	1796	172
15°	1714	1718	1714	1706	1694	483
25°	1522	1534	1541	1530	1516	697
35°	1224	1241	1298	1304	1300	767
45°	948	964	995	1041	1046	731
55°	664	675	708	747	769	592
65°	389	399	423	453	479	386
75°	156	164	176	185	195	171
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.7	1820.7	1820.7	1820.7	1820.7
2.5°	1825.6	1826.3	1822.1	1810.9	1803.9
5°	1818.6	1817.9	1810.9	1801.1	1795.5
7.5°	1798.3	1799.7	1797.6	1783.6	1776.0
10°	1778.7	1779.4	1773.9	1762.7	1753.6
12.5°	1753.6	1752.9	1745.2	1739.6	1724.9
15°	1713.7	1717.9	1713.7	1706.0	1694.1
17.5°	1675.2	1675.2	1678.0	1664.7	1655.6
20°	1631.9	1634.0	1634.0	1623.5	1613.0
22.5°	1581.5	1587.8	1589.9	1578.7	1566.1
25°	1522.0	1533.9	1540.9	1529.7	1516.4
27.5°	1450.0	1468.2	1489.2	1480.8	1466.1
30°	1369.6	1396.1	1431.1	1424.1	1413.6
32.5°	1293.3	1319.9	1368.2	1365.4	1359.8
35°	1224.1	1240.9	1297.5	1304.5	1299.6
37.5°	1158.3	1173.7	1226.9	1243.0	1238.8
40°	1089.1	1105.9	1147.8	1176.5	1177.9
42.5°	1020.5	1036.6	1070.9	1112.2	1112.2
45°	947.8	963.9	995.3	1040.8	1046.4
47.5°	876.4	893.2	924.0	969.5	978.6
50°	806.5	821.9	852.7	896.7	910.7
52.5°	733.7	750.5	780.6	821.2	841.5
55°	663.8	675.0	707.9	747.0	768.7
57.5°	591.1	601.5	638.6	672.2	694.6
60°	521.1	534.4	563.1	597.3	623.2
62.5°	454.0	467.9	492.4	522.5	551.9
65°	388.9	399.4	423.2	453.3	479.1
67.5°	326.0	335.0	358.8	379.8	407.1
70°	262.3	274.2	291.7	312.0	329.4
72.5°	211.2	216.1	230.8	245.5	263.7
75°	156.0	164.4	176.3	184.7	195.2
77.5°	111.9	116.8	123.8	130.8	140.6
80°	74.8	76.9	83.2	84.6	92.3
82.5°	45.5	46.9	48.3	49.0	51.8
85°	24.5	24.5	24.5	23.1	23.1
87.5°	14.0	14.0	11.9	9.8	7.0
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)