

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: P555907

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-85-EDD**

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: P555907
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-30-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

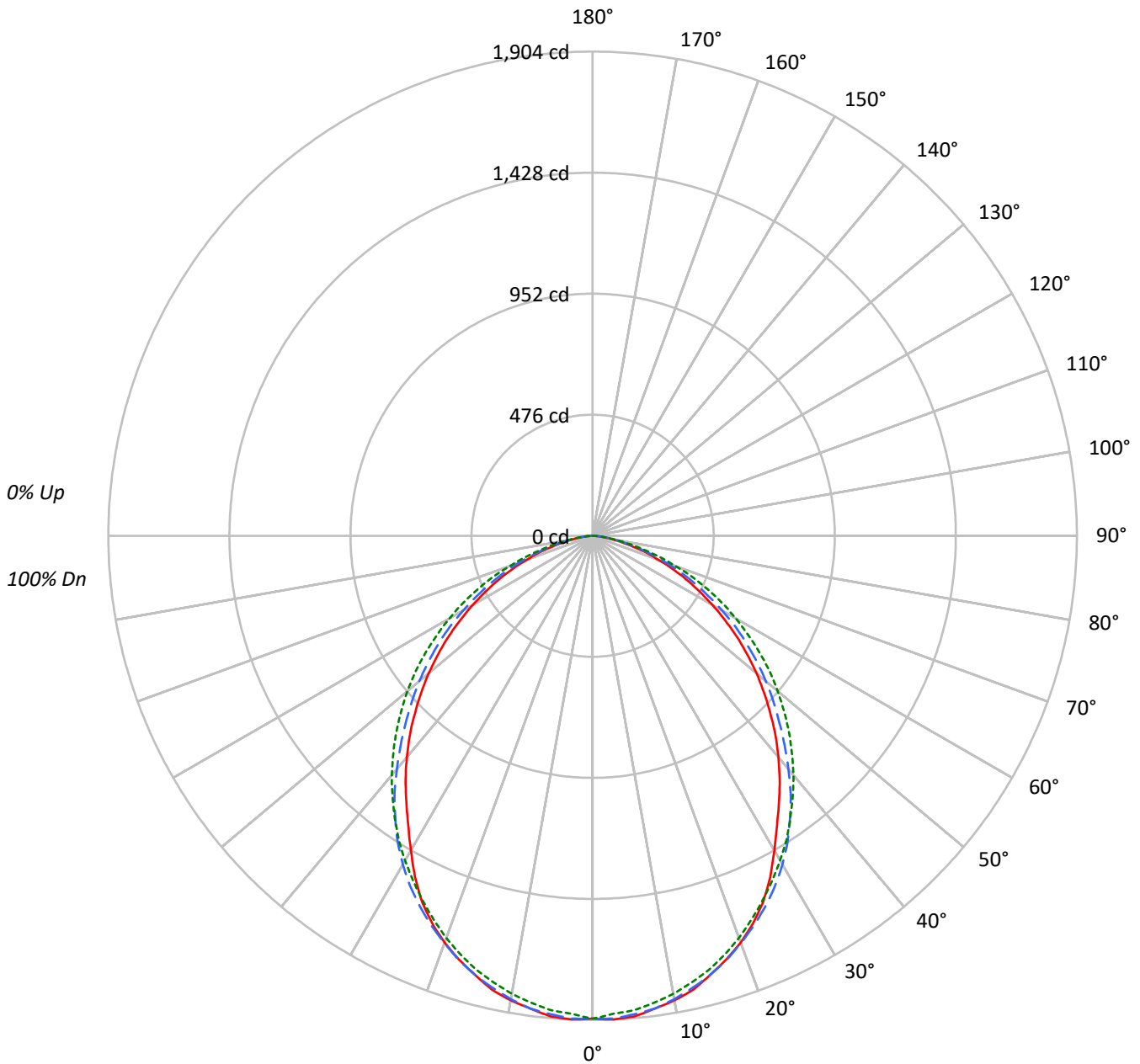
Lumens per Lamp: N/A
Luminaire Lumens: 4391.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	10220	10220	10220
5°	10247	10204	10117
10°	10139	10111	9995
15°	9959	9959	9845
20°	9748	9761	9635
25°	9427	9544	9392
30°	8877	9276	9163
35°	8388	8891	8906
40°	7980	8411	8631
45°	7524	7901	8307
50°	7043	7446	7953
55°	6496	6928	7523
60°	5850	6322	6997
65°	5165	5621	6364
70°	4305	4787	5407
75°	3383	3822	4232
80°	2421	2690	2985
85°	1575	1575	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.1
10°-20°	502.3	11.4
20°-30°	734.0	16.7
30°-40°	833.2	19.0
40°-50°	804.3	18.3
50°-60°	663.5	15.1
60°-70°	441.8	10.1
70°-80°	197.7	4.5
80°-90°	35.4	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°	1415.1	32.2
0°-40°	2248.3	51.2
0°-60°	3716.1	84.6
0°-90°	4391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1897	1896	1889	1879	1873	180
15°	1787	1792	1787	1779	1767	504
25°	1588	1600	1607	1596	1582	727
35°	1277	1294	1353	1361	1356	800
45°	988	1005	1038	1086	1091	763
55°	692	704	738	779	802	618
65°	406	417	441	473	500	402
75°	163	171	184	193	204	178
85°	26	26	26	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.0	1899.0	1899.0	1899.0	1899.0
2.5°	1904.1	1904.8	1900.5	1888.8	1881.5
5°	1896.8	1896.1	1888.8	1878.6	1872.7
7.5°	1875.6	1877.1	1874.9	1860.3	1852.3
10°	1855.2	1856.0	1850.1	1838.4	1829.0
12.5°	1829.0	1828.2	1820.2	1814.4	1799.0
15°	1787.4	1791.8	1787.4	1779.3	1766.9
17.5°	1747.2	1747.2	1750.2	1736.3	1726.8
20°	1702.0	1704.2	1704.2	1693.3	1682.3
22.5°	1649.5	1656.1	1658.2	1646.6	1633.4
25°	1587.5	1599.9	1607.2	1595.5	1581.6
27.5°	1512.3	1531.3	1553.2	1544.4	1529.1
30°	1428.4	1456.2	1492.6	1485.3	1474.4
32.5°	1348.9	1376.6	1427.0	1424.1	1418.2
35°	1276.7	1294.2	1353.3	1360.6	1355.5
37.5°	1208.1	1224.2	1279.6	1296.4	1292.0
40°	1135.9	1153.4	1197.2	1227.1	1228.5
42.5°	1064.4	1081.2	1116.9	1160.0	1160.0
45°	988.5	1005.3	1038.1	1085.6	1091.4
47.5°	914.1	931.6	963.7	1011.1	1020.6
50°	841.2	857.2	889.3	935.3	949.9
52.5°	765.3	782.8	814.2	856.5	877.6
55°	692.3	704.0	738.3	779.1	801.8
57.5°	616.5	627.4	666.1	701.1	724.4
60°	543.5	557.4	587.3	623.0	650.0
62.5°	473.5	488.1	513.6	545.0	575.6
65°	405.6	416.6	441.4	472.7	499.7
67.5°	340.0	349.4	374.3	396.1	424.6
70°	273.6	286.0	304.2	325.4	343.6
72.5°	220.3	225.4	240.7	256.1	275.0
75°	162.7	171.4	183.8	192.6	203.5
77.5°	116.7	121.8	129.1	136.4	146.6
80°	78.1	80.2	86.8	88.3	96.3
82.5°	47.4	48.9	50.3	51.1	54.0
85°	25.5	25.5	25.5	24.1	24.1
87.5°	14.6	14.6	12.4	10.2	7.3
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)