

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: P555894

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-87-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: P555894
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

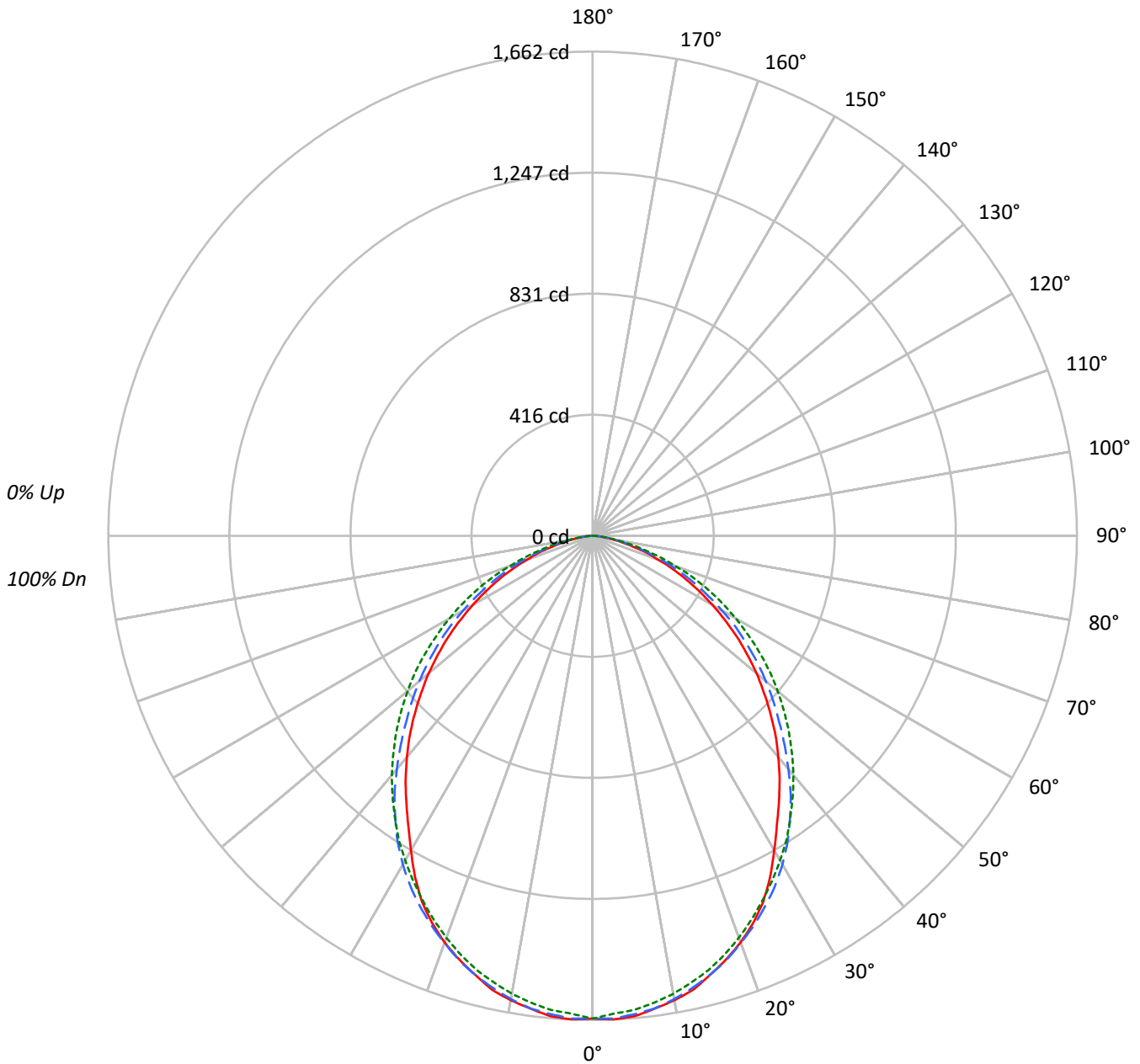
Lumens per Lamp: N/A
Luminaire Lumens: 3832.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	8919	8919	8919
5°	8943	8905	8829
10°	8848	8824	8723
15°	8691	8691	8592
20°	8507	8518	8409
25°	8227	8329	8197
30°	7747	8095	7996
35°	7320	7759	7772
40°	6965	7340	7532
45°	6566	6896	7250
50°	6147	6498	6940
55°	5669	6046	6565
60°	5105	5517	6106
65°	4508	4905	5554
70°	3756	4178	4719
75°	2953	3335	3693
80°	2111	2349	2603
85°	1377	1377	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.1
10°-20°	438.3	11.4
20°-30°	640.6	16.7
30°-40°	727.1	19.0
40°-50°	701.9	18.3
50°-60°	579.0	15.1
60°-70°	385.6	10.1
70°-80°	172.5	4.5
80°-90°	30.9	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°	1234.9	32.2
0°-40°	1962.1	51.2
0°-60°	3243.0	84.6
0°-90°	3832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1655	1655	1648	1639	1634	157
15°	1560	1564	1560	1553	1542	440
25°	1385	1396	1403	1392	1380	634
35°	1114	1129	1181	1187	1183	698
45°	863	877	906	947	952	666
55°	604	614	644	680	700	539
65°	354	364	385	413	436	351
75°	142	150	160	168	178	155
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.2	1657.2	1657.2	1657.2	1657.2
2.5°	1661.7	1662.3	1658.5	1648.3	1642.0
5°	1655.3	1654.7	1648.3	1639.4	1634.3
7.5°	1636.9	1638.1	1636.2	1623.5	1616.5
10°	1619.0	1619.7	1614.6	1604.4	1596.1
12.5°	1596.1	1595.5	1588.5	1583.4	1570.0
15°	1559.8	1563.7	1559.8	1552.8	1542.0
17.5°	1524.8	1524.8	1527.4	1515.3	1507.0
20°	1485.3	1487.3	1487.3	1477.7	1468.2
22.5°	1439.5	1445.2	1447.1	1437.0	1425.5
25°	1385.4	1396.2	1402.6	1392.4	1380.3
27.5°	1319.8	1336.4	1355.5	1347.8	1334.5
30°	1246.6	1270.8	1302.6	1296.3	1286.7
32.5°	1177.2	1201.4	1245.3	1242.8	1237.7
35°	1114.2	1129.4	1181.0	1187.4	1182.9
37.5°	1054.3	1068.3	1116.7	1131.4	1127.5
40°	991.3	1006.6	1044.8	1070.9	1072.1
42.5°	928.9	943.5	974.7	1012.3	1012.3
45°	862.7	877.3	906.0	947.4	952.5
47.5°	797.7	813.0	841.0	882.4	890.7
50°	734.1	748.1	776.1	816.2	828.9
52.5°	667.9	683.1	710.5	747.4	765.9
55°	604.2	614.4	644.3	680.0	699.7
57.5°	538.0	547.5	581.3	611.8	632.2
60°	474.3	486.4	512.5	543.7	567.3
62.5°	413.2	425.9	448.2	475.6	502.3
65°	354.0	363.5	385.2	412.6	436.1
67.5°	296.7	305.0	326.6	345.7	370.5
70°	238.7	249.6	265.5	284.0	299.9
72.5°	192.3	196.7	210.1	223.5	240.0
75°	142.0	149.6	160.4	168.1	177.6
77.5°	101.9	106.3	112.7	119.1	128.0
80°	68.1	70.0	75.8	77.0	84.0
82.5°	41.4	42.7	43.9	44.6	47.1
85°	22.3	22.3	22.3	21.0	21.0
87.5°	12.7	12.7	10.8	8.9	6.4
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)