

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: P555908

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-86-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: P555908
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-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

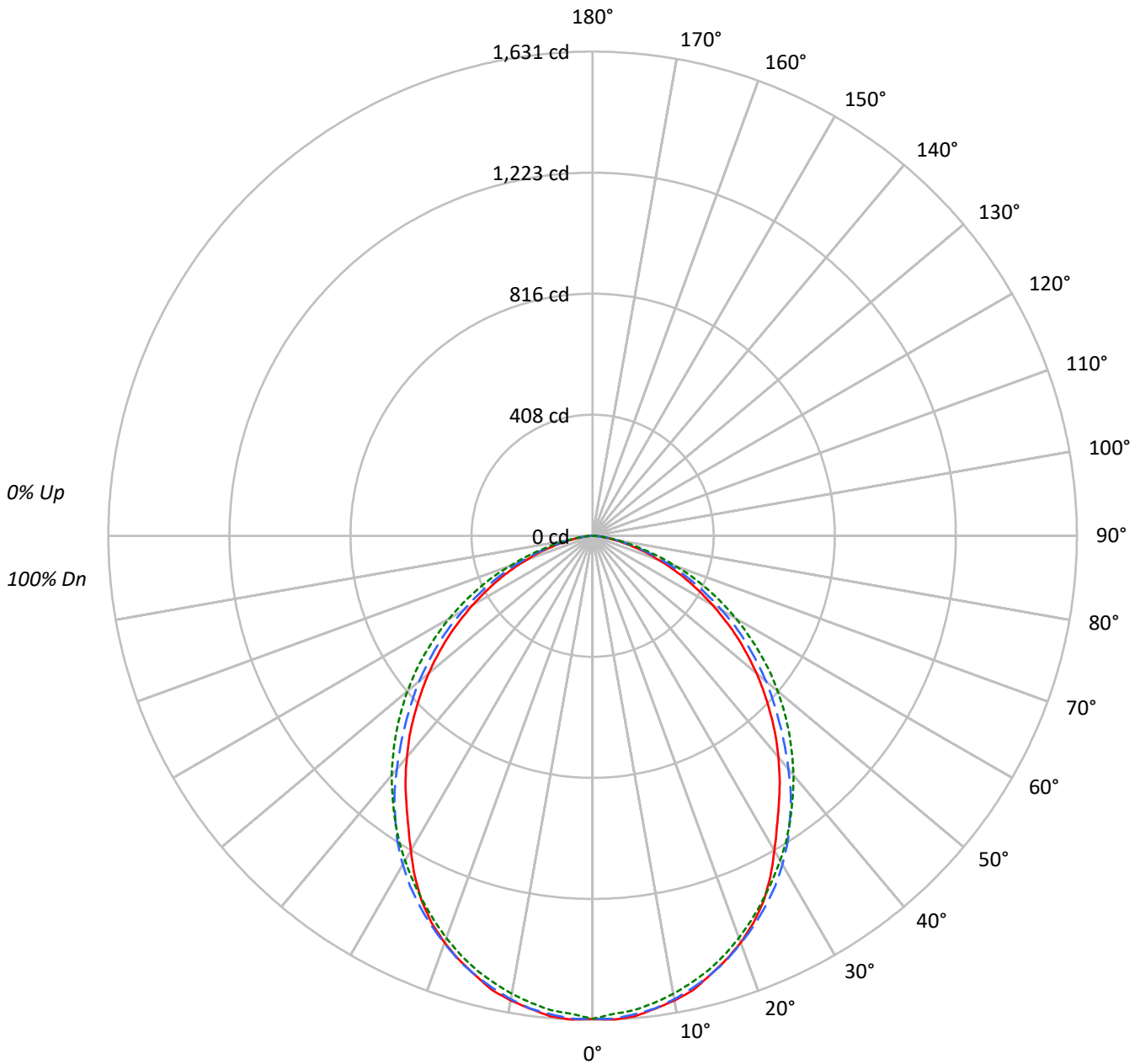
Lumens per Lamp: N/A
Luminaire Lumens: 3762.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	8756	8756	8756
5°	8780	8742	8668
10°	8687	8663	8564
15°	8532	8532	8435
20°	8352	8363	8255
25°	8077	8177	8047
30°	7605	7947	7850
35°	7186	7617	7630
40°	6837	7206	7395
45°	6446	6769	7117
50°	6034	6379	6814
55°	5566	5935	6445
60°	5013	5416	5994
65°	4425	4815	5452
70°	3688	4101	4633
75°	2899	3275	3627
80°	2073	2306	2557
85°	1352	1352	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	4.1
10°-20°	430.3	11.4
20°-30°	628.9	16.7
30°-40°	713.8	19.0
40°-50°	689.1	18.3
50°-60°	568.5	15.1
60°-70°	378.5	10.1
70°-80°	169.4	4.5
80°-90°	30.3	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°	1212.4	32.2
0°-40°	1926.2	51.2
0°-60°	3183.8	84.6
0°-90°	3762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1625	1624	1618	1610	1604	154
15°	1531	1535	1531	1524	1514	432
25°	1360	1371	1377	1367	1355	623
35°	1094	1109	1159	1166	1161	685
45°	847	861	889	930	935	653
55°	593	603	632	668	687	529
65°	348	357	378	405	428	345
75°	139	147	158	165	174	152
85°	22	22	22	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1631.3	1632.0	1628.2	1618.2	1612.0
5°	1625.1	1624.5	1618.2	1609.5	1604.5
7.5°	1607.0	1608.2	1606.3	1593.8	1587.0
10°	1589.5	1590.1	1585.1	1575.1	1567.0
12.5°	1567.0	1566.3	1559.5	1554.5	1541.3
15°	1531.3	1535.1	1531.3	1524.5	1513.8
17.5°	1497.0	1497.0	1499.5	1487.6	1479.5
20°	1458.2	1460.1	1460.1	1450.7	1441.3
22.5°	1413.2	1418.8	1420.7	1410.7	1399.5
25°	1360.1	1370.7	1377.0	1367.0	1355.1
27.5°	1295.7	1311.9	1330.7	1323.2	1310.1
30°	1223.8	1247.6	1278.8	1272.6	1263.2
32.5°	1155.7	1179.4	1222.6	1220.1	1215.1
35°	1093.8	1108.8	1159.4	1165.7	1161.3
37.5°	1035.1	1048.8	1096.3	1110.7	1106.9
40°	973.2	988.2	1025.7	1051.3	1052.6
42.5°	911.9	926.3	956.9	993.8	993.8
45°	846.9	861.3	889.4	930.1	935.1
47.5°	783.2	798.2	825.7	866.3	874.4
50°	720.7	734.4	761.9	801.3	813.8
52.5°	655.7	670.7	697.5	733.8	751.9
55°	593.2	603.2	632.5	667.5	686.9
57.5°	528.2	537.5	570.7	600.7	620.7
60°	465.7	477.5	503.2	533.8	556.9
62.5°	405.6	418.1	440.0	466.9	493.2
65°	347.5	356.9	378.1	405.0	428.1
67.5°	291.3	299.4	320.6	339.4	363.8
70°	234.4	245.0	260.6	278.8	294.4
72.5°	188.8	193.1	206.3	219.4	235.6
75°	139.4	146.9	157.5	165.0	174.4
77.5°	100.0	104.4	110.6	116.9	125.6
80°	66.9	68.8	74.4	75.6	82.5
82.5°	40.6	41.9	43.1	43.8	46.3
85°	21.9	21.9	21.9	20.6	20.6
87.5°	12.5	12.5	10.6	8.8	6.3
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)