

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: P555932

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-96-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: P555932
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-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

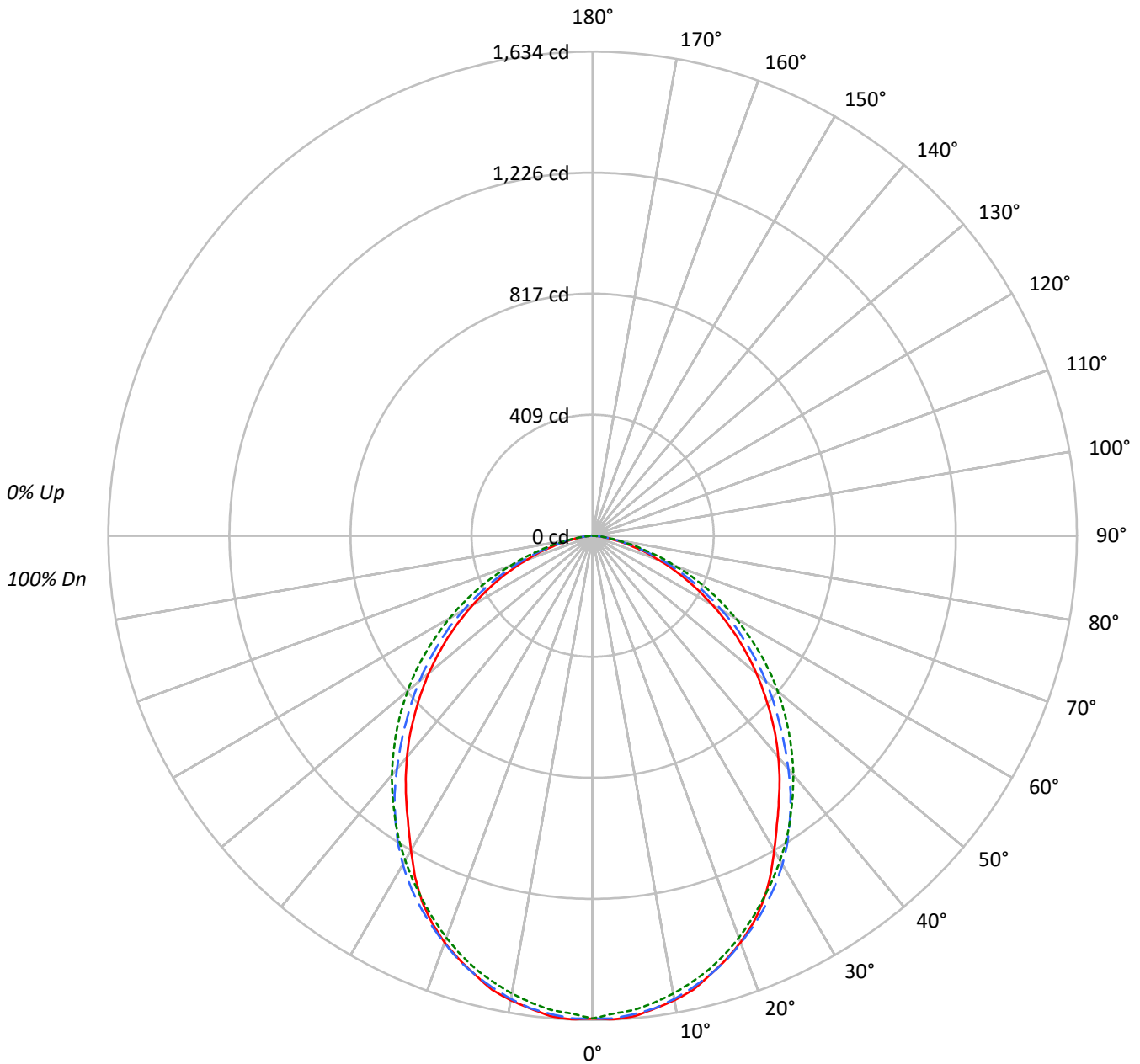
Lumens per Lamp: N/A
Luminaire Lumens: 3767.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8768	8768	8768
5°	8792	8754	8680
10°	8698	8674	8575
15°	8544	8544	8446
20°	8363	8373	8266
25°	8087	8188	8058
30°	7615	7958	7861
35°	7196	7628	7640
40°	6846	7215	7405
45°	6454	6779	7126
50°	6042	6388	6823
55°	5573	5943	6454
60°	5019	5423	6002
65°	4432	4821	5459
70°	3693	4107	4639
75°	2903	3279	3631
80°	2077	2309	2560
85°	1352	1352	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	4.1
10°-20°	430.9	11.4
20°-30°	629.7	16.7
30°-40°	714.8	19.0
40°-50°	690.0	18.3
50°-60°	569.2	15.1
60°-70°	379.0	10.1
70°-80°	169.6	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°	1214.0	32.2
0°-40°	1928.8	51.2
0°-60°	3188.0	84.6
0°-90°	3767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1627	1627	1620	1612	1607	154
15°	1533	1537	1533	1526	1516	432
25°	1362	1372	1379	1369	1357	624
35°	1095	1110	1161	1167	1163	686
45°	848	862	891	931	936	654
55°	594	604	633	668	688	530
65°	348	357	379	406	429	345
75°	140	147	158	165	175	153
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°	1629.1	1629.1	1629.1	1629.1	1629.1
2.5°	1633.5	1634.1	1630.4	1620.4	1614.1
5°	1627.3	1626.6	1620.4	1611.6	1606.6
7.5°	1609.1	1610.4	1608.5	1596.0	1589.1
10°	1591.6	1592.2	1587.2	1577.2	1569.0
12.5°	1569.0	1568.4	1561.5	1556.5	1543.4
15°	1533.4	1537.1	1533.4	1526.5	1515.8
17.5°	1499.0	1499.0	1501.5	1489.6	1481.4
20°	1460.1	1462.0	1462.0	1452.6	1443.2
22.5°	1415.1	1420.7	1422.6	1412.6	1401.3
25°	1361.9	1372.5	1378.8	1368.8	1356.9
27.5°	1297.4	1313.7	1332.5	1325.0	1311.8
30°	1225.4	1249.2	1280.5	1274.3	1264.9
32.5°	1157.2	1181.0	1224.2	1221.7	1216.7
35°	1095.3	1110.3	1161.0	1167.2	1162.9
37.5°	1036.4	1050.2	1097.8	1112.2	1108.4
40°	974.5	989.5	1027.0	1052.7	1054.0
42.5°	913.1	927.5	958.2	995.1	995.1
45°	848.0	862.4	890.6	931.3	936.3
47.5°	784.2	799.2	826.8	867.5	875.6
50°	721.6	735.4	762.9	802.4	814.9
52.5°	656.5	671.6	698.5	734.8	752.9
55°	593.9	604.0	633.4	668.4	687.8
57.5°	528.9	538.2	571.4	601.5	621.5
60°	466.3	478.2	503.8	534.5	557.6
62.5°	406.2	418.7	440.6	467.5	493.8
65°	348.0	357.4	378.6	405.6	428.7
67.5°	291.7	299.8	321.1	339.8	364.3
70°	234.7	245.3	261.0	279.1	294.8
72.5°	189.0	193.4	206.5	219.7	236.0
75°	139.6	147.1	157.7	165.2	174.6
77.5°	100.1	104.5	110.8	117.0	125.8
80°	67.0	68.8	74.5	75.7	82.6
82.5°	40.7	41.9	43.2	43.8	46.3
85°	21.9	21.9	21.9	20.7	20.7
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)