

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: P555926

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-87-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: P555926
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

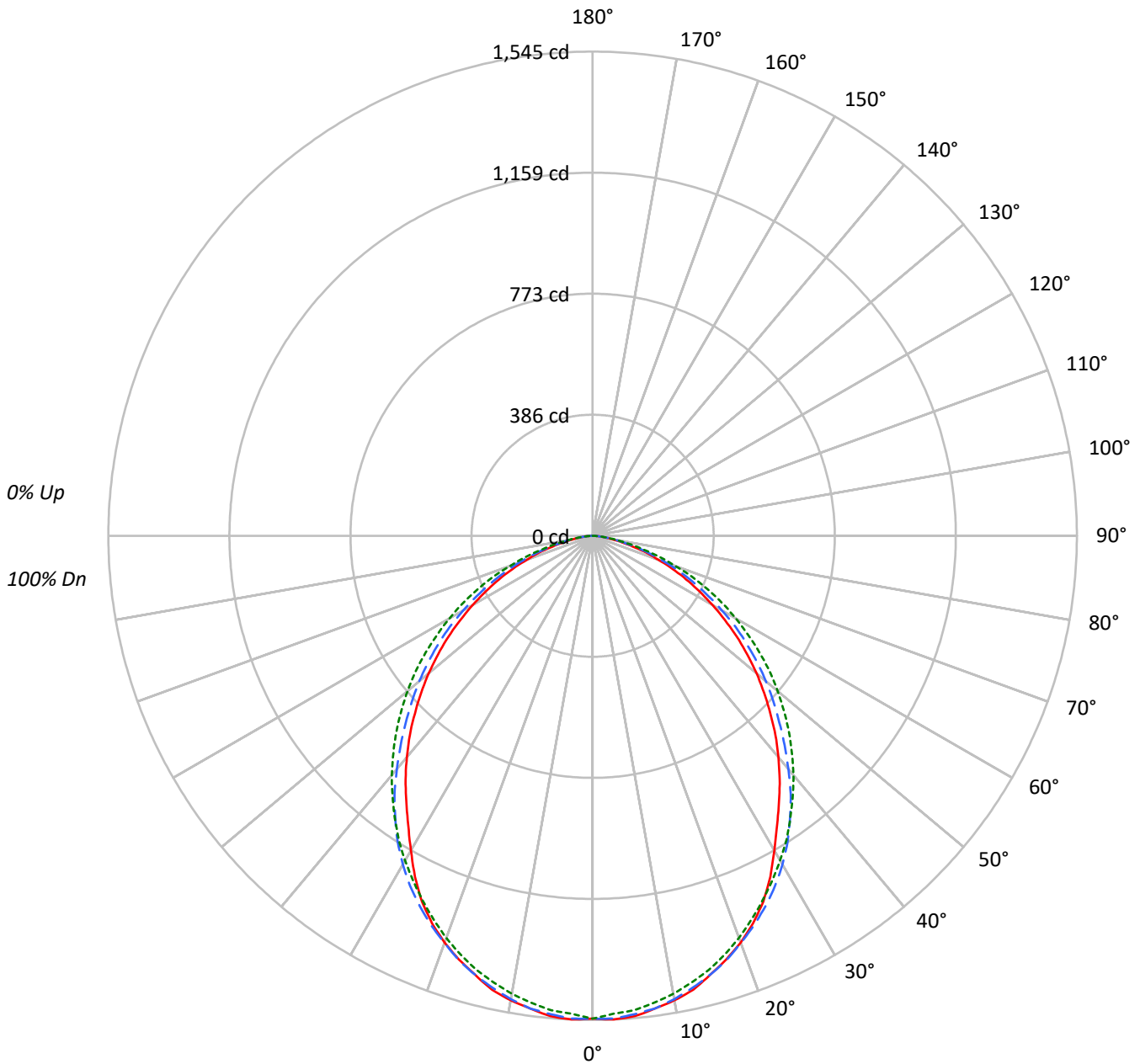
Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	8293	8293	8293
5°	8315	8280	8210
10°	8227	8204	8111
15°	8081	8081	7989
20°	7910	7920	7818
25°	7649	7744	7621
30°	7203	7527	7435
35°	6807	7215	7227
40°	6476	6825	7004
45°	6105	6412	6741
50°	5714	6042	6453
55°	5271	5621	6105
60°	4747	5129	5677
65°	4191	4560	5164
70°	3493	3885	4387
75°	2745	3103	3435
80°	1962	2182	2421
85°	1278	1278	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	4.1
10°-20°	407.6	11.4
20°-30°	595.6	16.7
30°-40°	676.1	19.0
40°-50°	652.6	18.3
50°-60°	538.4	15.1
60°-70°	358.5	10.1
70°-80°	160.4	4.5
80°-90°	28.7	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°	1148.3	32.2
0°-40°	1824.3	51.2
0°-60°	3015.3	84.6
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1539	1538	1533	1524	1520	146
15°	1450	1454	1450	1444	1434	409
25°	1288	1298	1304	1295	1283	590
35°	1036	1050	1098	1104	1100	649
45°	802	816	842	881	886	619
55°	562	571	599	632	651	501
65°	329	338	358	384	406	326
75°	132	139	149	156	165	144
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.9	1540.9	1540.9	1540.9	1540.9
2.5°	1545.0	1545.6	1542.1	1532.6	1526.7
5°	1539.1	1538.5	1532.6	1524.3	1519.6
7.5°	1522.0	1523.1	1521.4	1509.5	1503.0
10°	1505.4	1506.0	1501.2	1491.8	1484.1
12.5°	1484.1	1483.5	1477.0	1472.2	1459.8
15°	1450.3	1453.9	1450.3	1443.8	1433.8
17.5°	1417.8	1417.8	1420.1	1408.9	1401.2
20°	1381.1	1382.8	1382.8	1374.0	1365.1
22.5°	1338.5	1343.8	1345.6	1336.1	1325.4
25°	1288.1	1298.2	1304.1	1294.6	1283.4
27.5°	1227.2	1242.6	1260.3	1253.2	1240.8
30°	1159.1	1181.6	1211.2	1205.3	1196.4
32.5°	1094.6	1117.1	1157.9	1155.5	1150.8
35°	1036.0	1050.2	1098.1	1104.0	1099.9
37.5°	980.3	993.3	1038.3	1051.9	1048.4
40°	921.7	935.9	971.4	995.7	996.9
42.5°	863.7	877.3	906.3	941.2	941.2
45°	802.1	815.7	842.4	880.9	885.6
47.5°	741.7	755.9	782.0	820.5	828.2
50°	682.5	695.6	721.6	758.9	770.7
52.5°	621.0	635.2	660.6	695.0	712.1
55°	561.8	571.3	599.1	632.2	650.6
57.5°	500.2	509.1	540.5	568.9	587.8
60°	441.0	452.3	476.5	505.5	527.4
62.5°	384.2	396.0	416.7	442.2	467.1
65°	329.1	338.0	358.1	383.6	405.5
67.5°	275.9	283.6	303.7	321.4	344.5
70°	222.0	232.1	246.9	264.0	278.8
72.5°	178.8	182.9	195.4	207.8	223.2
75°	132.0	139.1	149.2	156.3	165.2
77.5°	94.7	98.9	104.8	110.7	119.0
80°	63.3	65.1	70.4	71.6	78.1
82.5°	38.5	39.7	40.8	41.4	43.8
85°	20.7	20.7	20.7	19.5	19.5
87.5°	11.8	11.8	10.1	8.3	5.9
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)