

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: P554709

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-86-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: P554709
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-LD4-2HI-35-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

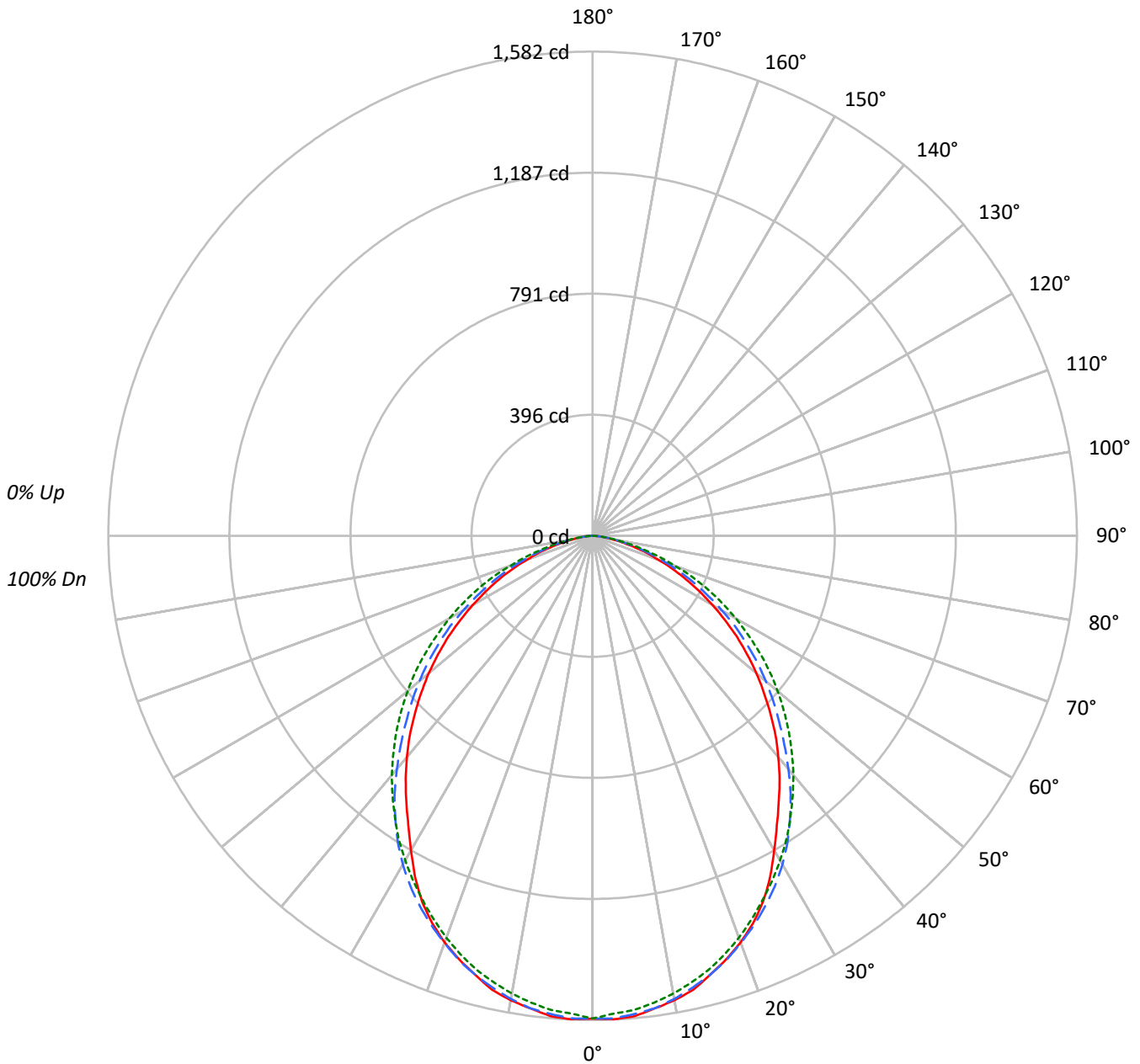
Lumens per Lamp: N/A
Luminaire Lumens: 3647.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8488	8488	8488
5°	8511	8475	8403
10°	8421	8397	8302
15°	8271	8271	8177
20°	8096	8107	8003
25°	7830	7927	7801
30°	7373	7704	7610
35°	6967	7385	7397
40°	6628	6986	7169
45°	6249	6562	6900
50°	5849	6184	6605
55°	5395	5754	6248
60°	4859	5251	5811
65°	4290	4669	5286
70°	3575	3976	4491
75°	2809	3175	3516
80°	2008	2235	2479
85°	1309	1309	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	4.1
10°-20°	417.2	11.4
20°-30°	609.6	16.7
30°-40°	692.0	19.0
40°-50°	668.0	18.3
50°-60°	551.1	15.1
60°-70°	367.0	10.1
70°-80°	164.2	4.5
80°-90°	29.4	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°	1175.3	32.2
0°-40°	1867.3	51.2
0°-60°	3086.4	84.6
0°-90°	3647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1575	1575	1569	1560	1555	149
15°	1484	1488	1484	1478	1468	418
25°	1318	1329	1335	1325	1314	604
35°	1060	1075	1124	1130	1126	664
45°	821	835	862	902	906	633
55°	575	585	613	647	666	513
65°	337	346	367	393	415	334
75°	135	142	153	160	169	148
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.2	1577.2	1577.2	1577.2	1577.2
2.5°	1581.5	1582.1	1578.4	1568.8	1562.7
5°	1575.4	1574.8	1568.8	1560.3	1555.4
7.5°	1557.8	1559.1	1557.2	1545.1	1538.5
10°	1540.9	1541.5	1536.6	1526.9	1519.1
12.5°	1519.1	1518.5	1511.8	1506.9	1494.2
15°	1484.5	1488.2	1484.5	1477.9	1467.6
17.5°	1451.2	1451.2	1453.6	1442.1	1434.2
20°	1413.6	1415.5	1415.5	1406.4	1397.3
22.5°	1370.0	1375.5	1377.3	1367.6	1356.7
25°	1318.5	1328.8	1334.9	1325.2	1313.7
27.5°	1256.1	1271.8	1290.0	1282.8	1270.0
30°	1186.4	1209.4	1239.7	1233.7	1224.6
32.5°	1120.4	1143.4	1185.2	1182.8	1177.9
35°	1060.4	1074.9	1124.0	1130.1	1125.8
37.5°	1003.4	1016.7	1062.8	1076.7	1073.1
40°	943.4	958.0	994.3	1019.2	1020.4
42.5°	884.1	898.0	927.7	963.4	963.4
45°	821.0	835.0	862.2	901.6	906.5
47.5°	759.2	773.8	800.4	839.8	847.7
50°	698.6	712.0	738.6	776.8	788.9
52.5°	635.6	650.2	676.2	711.4	728.9
55°	575.0	584.7	613.2	647.1	665.9
57.5°	512.0	521.1	553.2	582.3	601.7
60°	451.4	462.9	487.8	517.5	539.9
62.5°	393.2	405.4	426.6	452.6	478.1
65°	336.9	346.0	366.6	392.6	415.1
67.5°	282.4	290.2	310.8	329.0	352.7
70°	227.2	237.5	252.7	270.2	285.4
72.5°	183.0	187.2	200.0	212.7	228.4
75°	135.1	142.4	152.7	160.0	169.1
77.5°	96.9	101.2	107.2	113.3	121.8
80°	64.8	66.7	72.1	73.3	80.0
82.5°	39.4	40.6	41.8	42.4	44.8
85°	21.2	21.2	21.2	20.0	20.0
87.5°	12.1	12.1	10.3	8.5	6.1
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)