

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: P555719

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-87-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: P555719
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-LD4-3LO-35-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

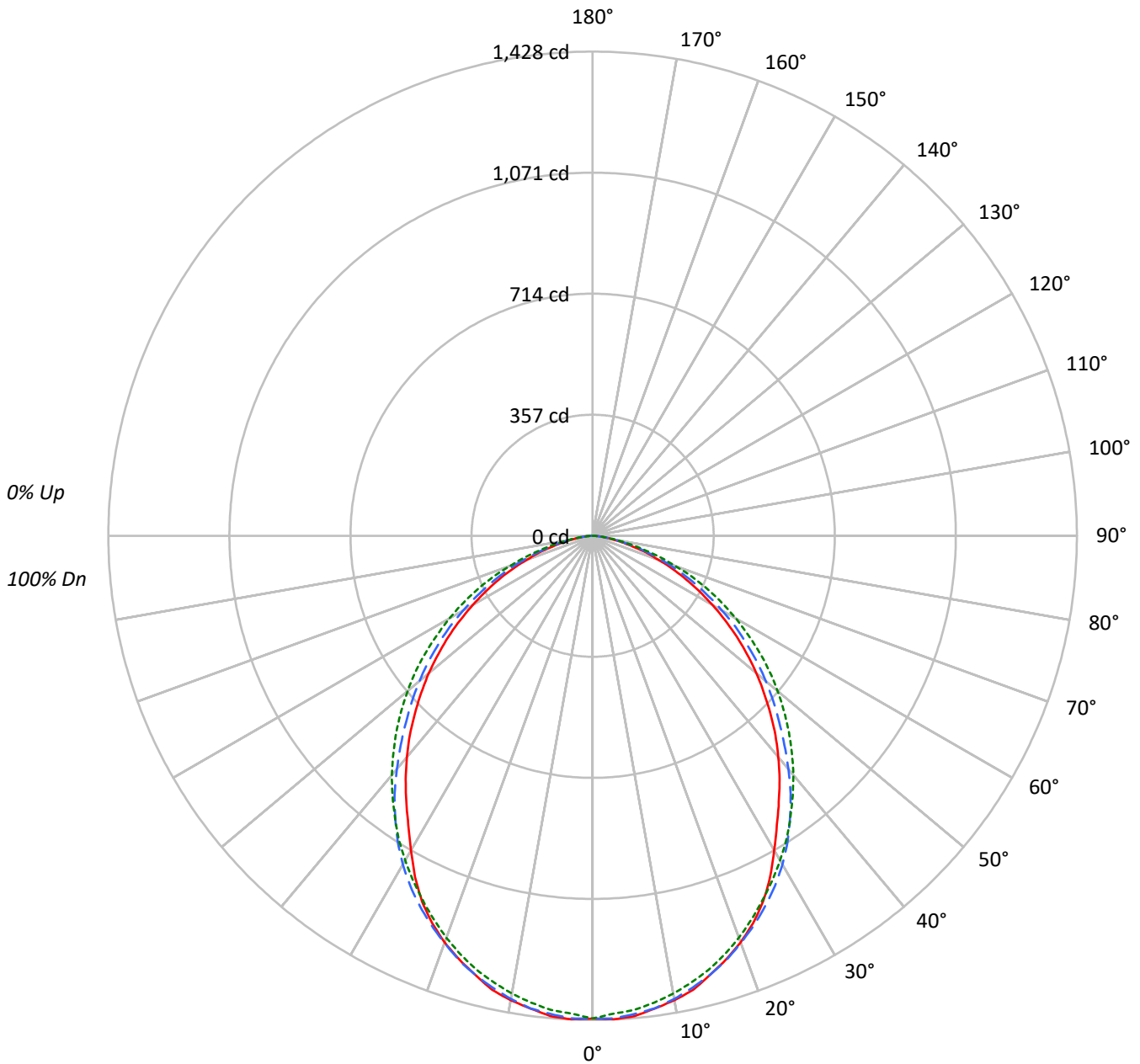
Lumens per Lamp: N/A
Luminaire Lumens: 3292.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7662	7662	7662
5°	7683	7650	7585
10°	7601	7580	7494
15°	7466	7466	7381
20°	7308	7318	7224
25°	7068	7155	7042
30°	6655	6955	6870
35°	6289	6666	6677
40°	5983	6306	6471
45°	5641	5924	6228
50°	5280	5582	5962
55°	4871	5194	5640
60°	4386	4739	5245
65°	3873	4214	4772
70°	3227	3589	4054
75°	2537	2865	3173
80°	1813	2018	2238
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	4.1
10°-20°	376.6	11.4
20°-30°	550.3	16.7
30°-40°	624.6	19.0
40°-50°	603.0	18.3
50°-60°	497.4	15.1
60°-70°	331.3	10.1
70°-80°	148.2	4.5
80°-90°	26.5	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°	1060.9	32.2
0°-40°	1685.6	51.2
0°-60°	2786.0	84.6
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1422	1422	1416	1408	1404	135
15°	1340	1343	1340	1334	1325	378
25°	1190	1200	1205	1196	1186	545
35°	957	970	1015	1020	1016	600
45°	741	754	778	814	818	572
55°	519	528	554	584	601	463
65°	304	312	331	354	375	302
75°	122	128	138	144	153	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	1427.5	1428.1	1424.8	1416.0	1410.6
5°	1422.1	1421.5	1416.0	1408.4	1404.0
7.5°	1406.2	1407.3	1405.7	1394.7	1388.7
10°	1390.9	1391.4	1387.1	1378.3	1371.2
12.5°	1371.2	1370.7	1364.6	1360.3	1348.8
15°	1340.0	1343.3	1340.0	1334.0	1324.7
17.5°	1309.9	1309.9	1312.1	1301.7	1294.6
20°	1276.0	1277.7	1277.7	1269.5	1261.3
22.5°	1236.6	1241.6	1243.2	1234.5	1224.6
25°	1190.2	1199.5	1204.9	1196.2	1185.8
27.5°	1133.8	1148.0	1164.5	1157.9	1146.4
30°	1070.9	1091.7	1119.1	1113.6	1105.4
32.5°	1011.3	1032.1	1069.8	1067.6	1063.3
35°	957.2	970.3	1014.6	1020.1	1016.2
37.5°	905.7	917.8	959.3	971.9	968.6
40°	851.6	864.7	897.5	920.0	921.1
42.5°	798.0	810.6	837.4	869.6	869.6
45°	741.1	753.7	778.3	813.9	818.2
47.5°	685.3	698.5	722.5	758.1	765.2
50°	630.6	642.7	666.7	701.2	712.1
52.5°	573.7	586.9	610.4	642.1	658.0
55°	519.1	527.8	553.5	584.1	601.1
57.5°	462.2	470.4	499.4	525.6	543.1
60°	407.5	417.9	440.3	467.1	487.3
62.5°	355.0	365.9	385.1	408.6	431.5
65°	304.1	312.3	330.9	354.4	374.7
67.5°	254.9	262.0	280.6	297.0	318.3
70°	205.1	214.4	228.1	243.9	257.6
72.5°	165.2	169.0	180.5	192.0	206.2
75°	122.0	128.5	137.8	144.4	152.6
77.5°	87.5	91.3	96.8	102.3	109.9
80°	58.5	60.2	65.1	66.2	72.2
82.5°	35.6	36.6	37.7	38.3	40.5
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.7	5.5
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)