

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: P555860

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-86-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: P555860
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-50-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

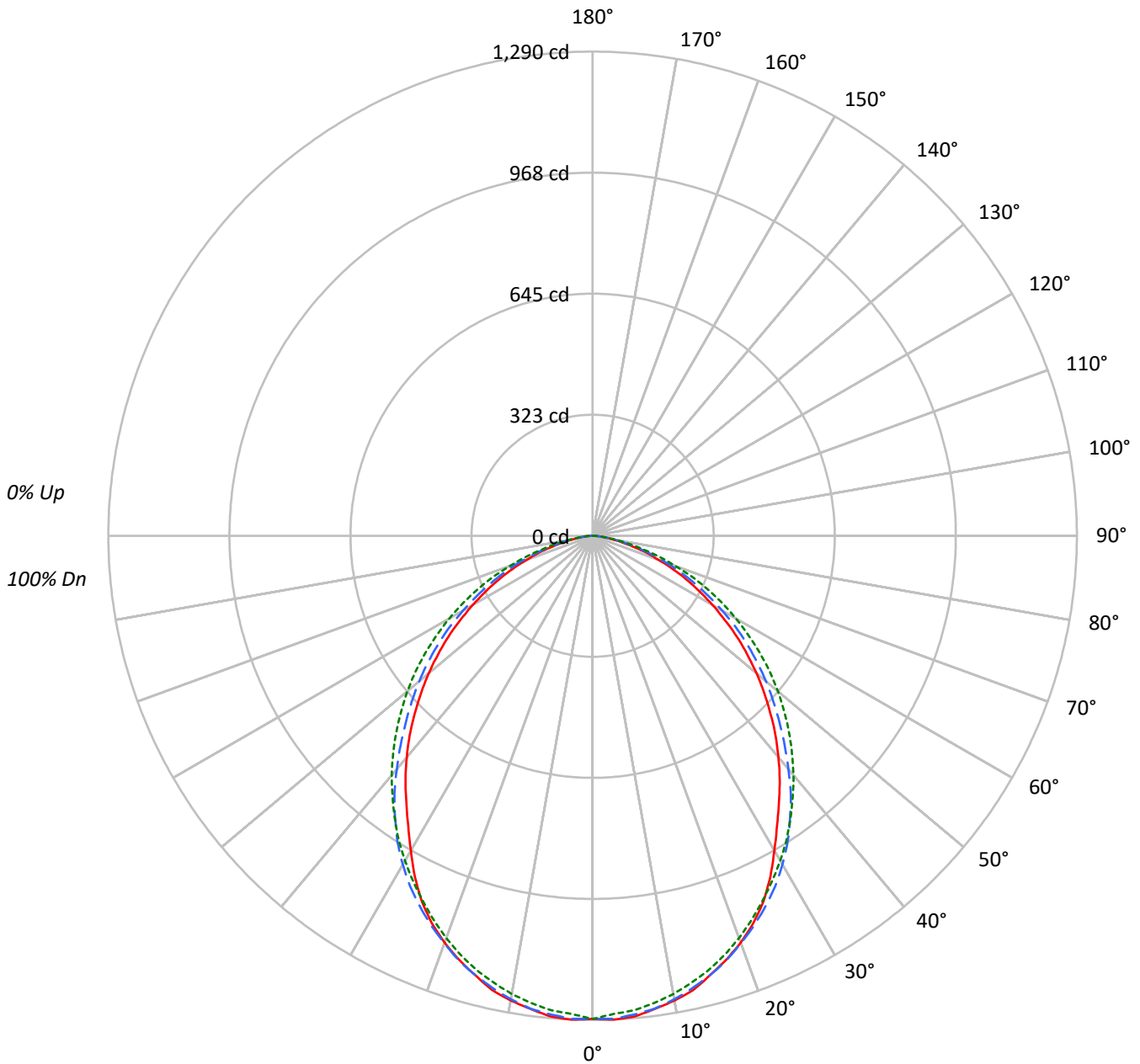
Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6927	6927	6927
5°	6945	6916	6857
10°	6872	6853	6774
15°	6750	6750	6672
20°	6607	6615	6530
25°	6389	6469	6366
30°	6016	6287	6210
35°	5685	6026	6036
40°	5409	5701	5850
45°	5100	5355	5630
50°	4773	5046	5390
55°	4403	4695	5099
60°	3965	4284	4743
65°	3501	3809	4313
70°	2917	3245	3665
75°	2294	2591	2870
80°	1640	1822	2024
85°	1068	1068	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	4.1
10°-20°	340.4	11.4
20°-30°	497.5	16.7
30°-40°	564.7	19.0
40°-50°	545.1	18.3
50°-60°	449.7	15.1
60°-70°	299.5	10.1
70°-80°	134.0	4.5
80°-90°	24.0	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°	959.1	32.2
0°-40°	1523.8	51.2
0°-60°	2518.6	84.6
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1286	1285	1280	1273	1269	122
15°	1211	1214	1211	1206	1198	342
25°	1076	1084	1089	1081	1072	493
35°	865	877	917	922	919	542
45°	670	681	704	736	740	517
55°	469	477	500	528	543	419
65°	275	282	299	320	339	273
75°	110	116	125	130	138	121
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.0	1287.0	1287.0	1287.0	1287.0
2.5°	1290.5	1291.0	1288.0	1280.1	1275.2
5°	1285.6	1285.1	1280.1	1273.2	1269.2
7.5°	1271.2	1272.2	1270.7	1260.8	1255.4
10°	1257.4	1257.9	1253.9	1246.0	1239.6
12.5°	1239.6	1239.1	1233.6	1229.7	1219.3
15°	1211.4	1214.4	1211.4	1206.0	1197.5
17.5°	1184.2	1184.2	1186.2	1176.8	1170.4
20°	1153.5	1155.0	1155.0	1147.6	1140.2
22.5°	1117.9	1122.4	1123.9	1116.0	1107.1
25°	1075.9	1084.3	1089.3	1081.4	1072.0
27.5°	1025.0	1037.8	1052.7	1046.7	1036.4
30°	968.1	986.9	1011.6	1006.7	999.3
32.5°	914.2	933.0	967.1	965.2	961.2
35°	865.3	877.1	917.2	922.1	918.7
37.5°	818.8	829.7	867.3	878.6	875.7
40°	769.9	781.7	811.4	831.7	832.6
42.5°	721.4	732.8	757.0	786.2	786.2
45°	670.0	681.3	703.6	735.7	739.7
47.5°	619.5	631.4	653.2	685.3	691.7
50°	570.1	581.0	602.7	633.9	643.8
52.5°	518.7	530.5	551.8	580.5	594.8
55°	469.2	477.1	500.4	528.1	543.4
57.5°	417.8	425.2	451.4	475.2	491.0
60°	368.4	377.8	398.0	422.3	440.6
62.5°	320.9	330.8	348.1	369.4	390.1
65°	274.9	282.3	299.1	320.4	338.7
67.5°	230.4	236.8	253.7	268.5	287.8
70°	185.4	193.8	206.2	220.5	232.9
72.5°	149.3	152.8	163.2	173.6	186.4
75°	110.3	116.2	124.6	130.5	138.0
77.5°	79.1	82.6	87.5	92.5	99.4
80°	52.9	54.4	58.8	59.8	65.3
82.5°	32.1	33.1	34.1	34.6	36.6
85°	17.3	17.3	17.3	16.3	16.3
87.5°	9.9	9.9	8.4	6.9	4.9
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)