

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: P555858

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-85-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: P555858
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

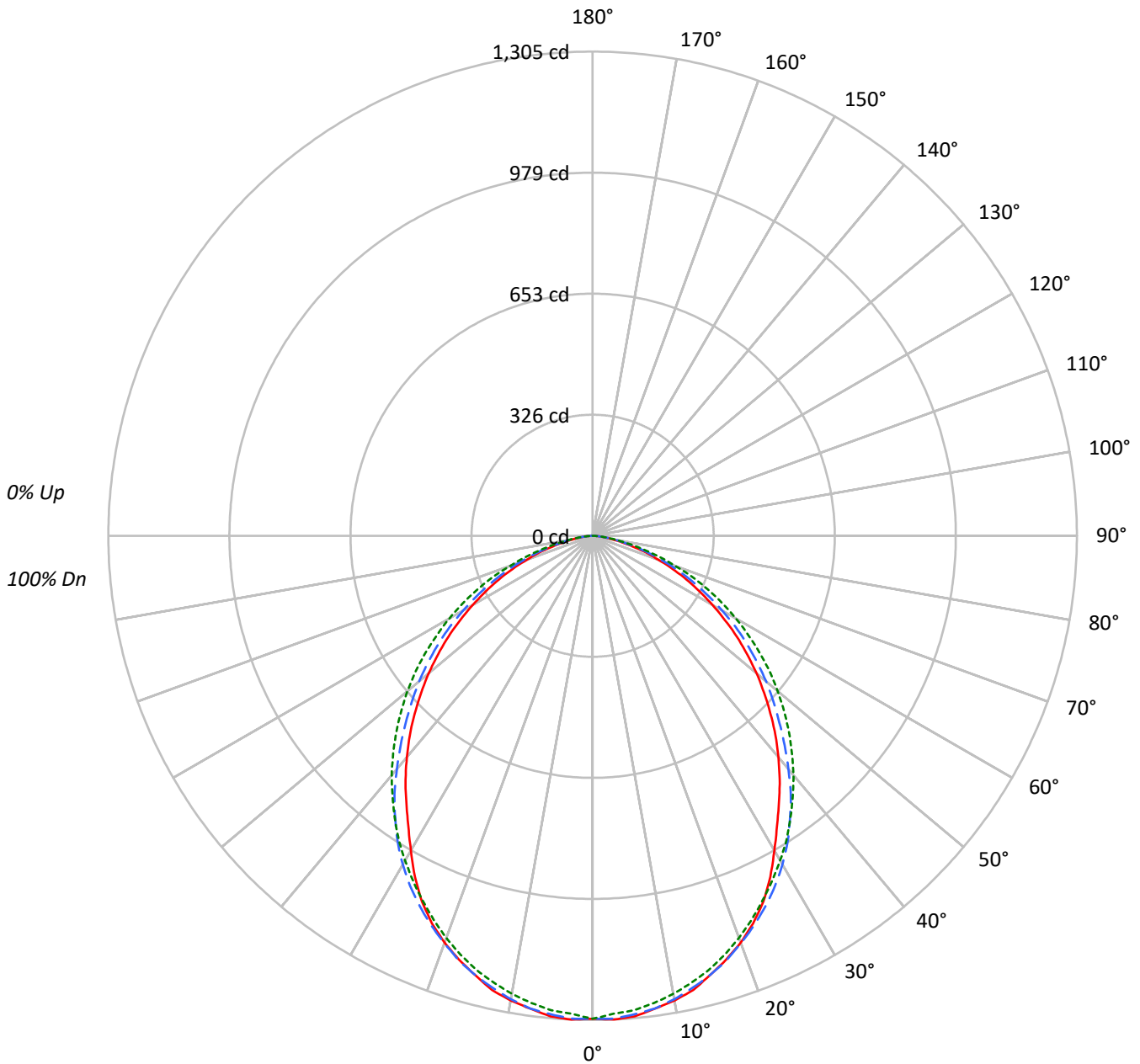
Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7006	7006	7006
5°	7024	6995	6935
10°	6950	6931	6851
15°	6827	6827	6749
20°	6682	6691	6605
25°	6462	6542	6438
30°	6085	6359	6281
35°	5750	6095	6105
40°	5470	5766	5917
45°	5157	5416	5694
50°	4828	5104	5452
55°	4453	4749	5157
60°	4011	4334	4796
65°	3542	3854	4363
70°	2950	3281	3706
75°	2319	2620	2901
80°	1658	1844	2046
85°	1081	1081	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	4.1
10°-20°	344.3	11.4
20°-30°	503.2	16.7
30°-40°	571.2	19.0
40°-50°	551.3	18.3
50°-60°	454.8	15.1
60°-70°	302.9	10.1
70°-80°	135.5	4.5
80°-90°	24.2	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°	970.0	32.2
0°-40°	1541.2	51.2
0°-60°	2547.3	84.6
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1300	1300	1295	1288	1284	123
15°	1225	1228	1225	1220	1211	345
25°	1088	1097	1102	1094	1084	498
35°	875	887	928	933	929	548
45°	678	689	712	744	748	523
55°	475	483	506	534	550	424
65°	278	286	303	324	343	276
75°	112	118	126	132	140	122
85°	18	18	18	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.7	1301.7	1301.7	1301.7	1301.7
2.5°	1305.2	1305.7	1302.7	1294.7	1289.7
5°	1300.2	1299.7	1294.7	1287.7	1283.7
7.5°	1285.7	1286.7	1285.2	1275.2	1269.7
10°	1271.7	1272.2	1268.2	1260.2	1253.7
12.5°	1253.7	1253.2	1247.7	1243.7	1233.2
15°	1225.2	1228.2	1225.2	1219.7	1211.2
17.5°	1197.7	1197.7	1199.7	1190.2	1183.7
20°	1166.7	1168.2	1168.2	1160.7	1153.2
22.5°	1130.7	1135.2	1136.7	1128.7	1119.7
25°	1088.2	1096.7	1101.7	1093.7	1084.2
27.5°	1036.7	1049.7	1064.7	1058.7	1048.2
30°	979.2	998.2	1023.2	1018.2	1010.7
32.5°	924.7	943.7	978.2	976.2	972.2
35°	875.2	887.2	927.7	932.7	929.2
37.5°	828.2	839.2	877.2	888.7	885.7
40°	778.6	790.7	820.7	841.2	842.2
42.5°	729.6	741.1	765.6	795.2	795.2
45°	677.6	689.1	711.6	744.1	748.1
47.5°	626.6	638.6	660.6	693.1	699.6
50°	576.6	587.6	609.6	641.1	651.1
52.5°	524.6	536.6	558.1	587.1	601.6
55°	474.6	482.6	506.1	534.1	549.6
57.5°	422.6	430.1	456.6	480.6	496.6
60°	372.6	382.1	402.6	427.1	445.6
62.5°	324.6	334.6	352.1	373.6	394.6
65°	278.1	285.6	302.6	324.1	342.6
67.5°	233.0	239.5	256.5	271.6	291.1
70°	187.5	196.0	208.5	223.0	235.5
72.5°	151.0	154.5	165.0	175.5	188.5
75°	111.5	117.5	126.0	132.0	139.5
77.5°	80.0	83.5	88.5	93.5	100.5
80°	53.5	55.0	59.5	60.5	66.0
82.5°	32.5	33.5	34.5	35.0	37.0
85°	17.5	17.5	17.5	16.5	16.5
87.5°	10.0	10.0	8.5	7.0	5.0
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)