

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: P555830

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-87-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: P555830
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

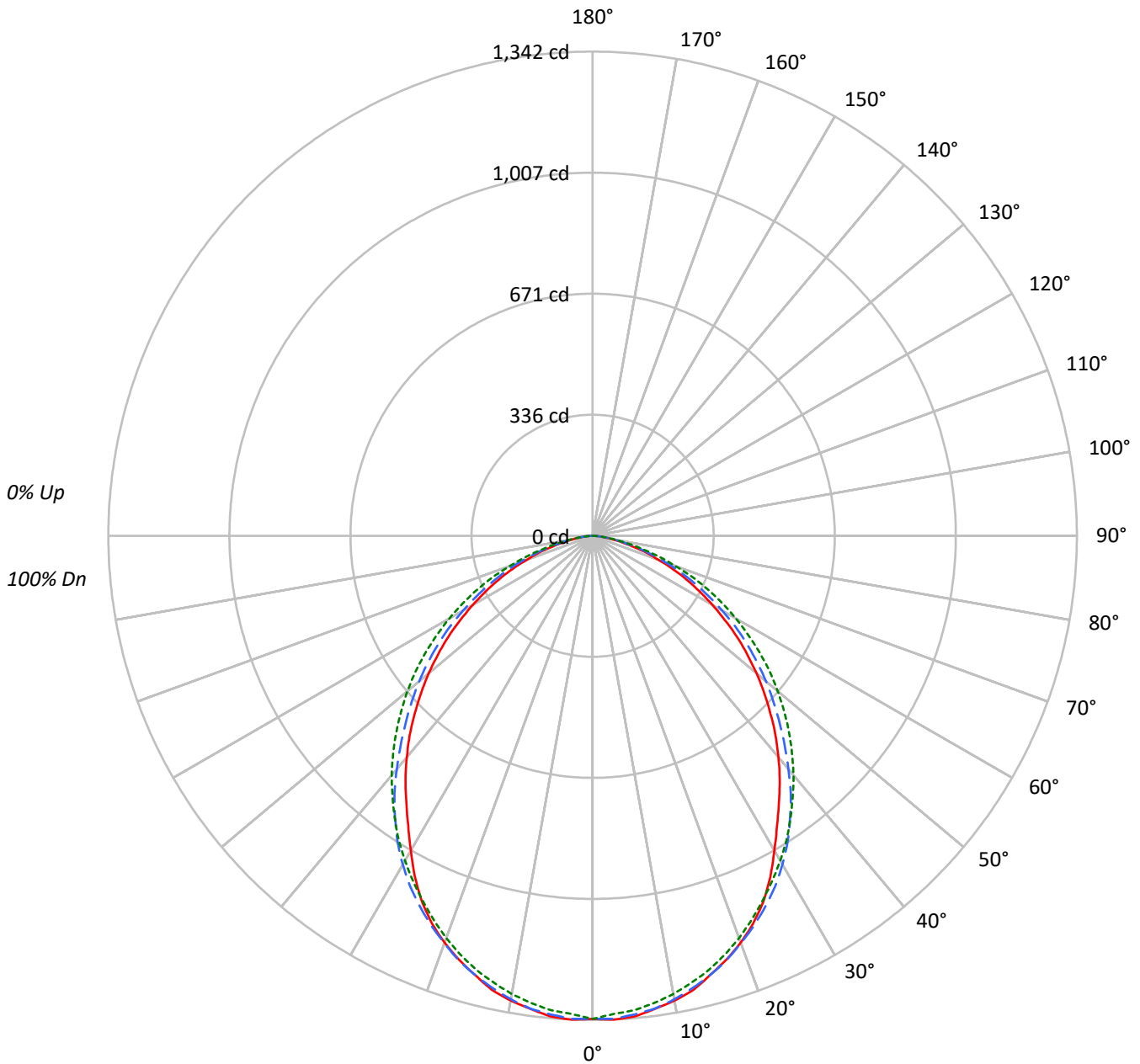
Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7206	7206	7206
5°	7225	7195	7133
10°	7149	7129	7048
15°	7022	7022	6941
20°	6873	6882	6794
25°	6647	6729	6622
30°	6259	6540	6461
35°	5914	6269	6279
40°	5627	5930	6086
45°	5305	5571	5857
50°	4966	5250	5607
55°	4580	4885	5304
60°	4125	4457	4933
65°	3642	3963	4488
70°	3035	3375	3813
75°	2385	2695	2984
80°	1705	1897	2104
85°	1112	1112	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	4.1
10°-20°	354.1	11.4
20°-30°	517.5	16.7
30°-40°	587.5	19.0
40°-50°	567.1	18.3
50°-60°	467.8	15.1
60°-70°	311.5	10.1
70°-80°	139.4	4.5
80°-90°	24.9	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°	997.7	32.2
0°-40°	1585.2	51.2
0°-60°	2620.1	84.6
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1337	1337	1332	1324	1320	127
15°	1260	1263	1260	1255	1246	355
25°	1119	1128	1133	1125	1115	513
35°	900	912	954	959	956	564
45°	697	709	732	765	770	538
55°	488	496	521	549	565	436
65°	286	294	311	333	352	284
75°	115	121	130	136	144	125
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.9	1338.9	1338.9	1338.9	1338.9
2.5°	1342.5	1343.1	1340.0	1331.7	1326.6
5°	1337.4	1336.9	1331.7	1324.5	1320.4
7.5°	1322.5	1323.5	1322.0	1311.7	1306.0
10°	1308.1	1308.6	1304.5	1296.2	1289.6
12.5°	1289.6	1289.0	1283.4	1279.3	1268.5
15°	1260.2	1263.3	1260.2	1254.6	1245.8
17.5°	1231.9	1231.9	1234.0	1224.2	1217.5
20°	1200.1	1201.6	1201.6	1193.9	1186.2
22.5°	1163.0	1167.7	1169.2	1161.0	1151.7
25°	1119.3	1128.0	1133.2	1125.0	1115.2
27.5°	1066.3	1079.7	1095.1	1088.9	1078.1
30°	1007.2	1026.7	1052.4	1047.3	1039.6
32.5°	951.1	970.6	1006.1	1004.1	1000.0
35°	900.2	912.5	954.2	959.3	955.7
37.5°	851.8	863.1	902.2	914.1	911.0
40°	800.9	813.2	844.1	865.2	866.2
42.5°	750.5	762.3	787.5	817.9	817.9
45°	697.0	708.8	732.0	765.4	769.5
47.5°	644.5	656.9	679.5	712.9	719.6
50°	593.1	604.4	627.0	659.4	669.7
52.5°	539.6	551.9	574.1	603.9	618.8
55°	488.1	496.4	520.6	549.4	565.3
57.5°	434.7	442.4	469.6	494.3	510.8
60°	383.2	393.0	414.1	439.3	458.3
62.5°	333.8	344.1	362.1	384.2	405.8
65°	286.0	293.7	311.2	333.3	352.4
67.5°	239.7	246.4	263.9	279.3	299.4
70°	192.9	201.6	214.5	229.4	242.3
72.5°	155.3	158.9	169.7	180.5	193.9
75°	114.7	120.9	129.6	135.8	143.5
77.5°	82.3	85.9	91.0	96.2	103.4
80°	55.0	56.6	61.2	62.2	67.9
82.5°	33.4	34.5	35.5	36.0	38.1
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.7	7.2	5.1
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)