

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: P555123

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-85-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: P555123
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-LD4-2STD-30-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

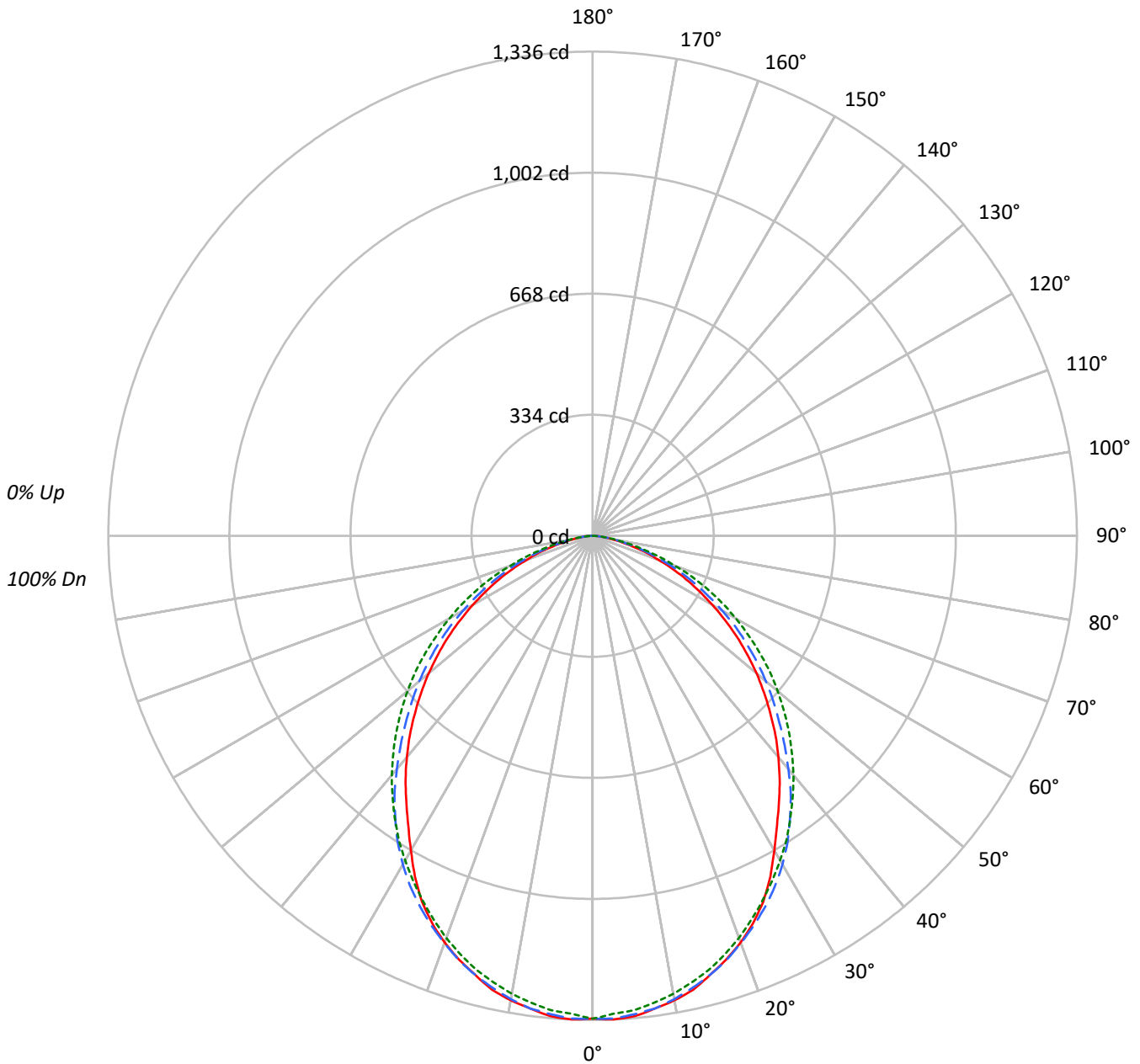
Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7171	7171	7171
5°	7190	7160	7099
10°	7114	7095	7013
15°	6988	6988	6908
20°	6840	6849	6761
25°	6615	6697	6590
30°	6229	6508	6429
35°	5886	6239	6249
40°	5599	5902	6056
45°	5279	5544	5829
50°	4942	5225	5580
55°	4558	4860	5279
60°	4105	4436	4909
65°	3624	3944	4465
70°	3021	3360	3794
75°	2375	2682	2969
80°	1698	1888	2095
85°	1105	1105	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	4.1
10°-20°	352.4	11.4
20°-30°	515.0	16.7
30°-40°	584.6	19.0
40°-50°	564.3	18.3
50°-60°	465.6	15.1
60°-70°	310.0	10.1
70°-80°	138.7	4.5
80°-90°	24.8	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°	992.9	32.2
0°-40°	1577.5	51.2
0°-60°	2607.4	84.6
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1331	1330	1325	1318	1314	126
15°	1254	1257	1254	1248	1240	354
25°	1114	1123	1128	1120	1110	510
35°	896	908	950	955	951	561
45°	694	705	728	762	766	535
55°	486	494	518	547	563	434
65°	285	292	310	332	351	282
75°	114	120	129	135	143	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°	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1336.0	1336.5	1333.5	1325.3	1320.2
5°	1330.9	1330.4	1325.3	1318.1	1314.0
7.5°	1316.1	1317.1	1315.6	1305.3	1299.7
10°	1301.7	1302.3	1298.2	1290.0	1283.3
12.5°	1283.3	1282.8	1277.2	1273.1	1262.3
15°	1254.1	1257.2	1254.1	1248.5	1239.8
17.5°	1226.0	1226.0	1228.0	1218.3	1211.6
20°	1194.2	1195.8	1195.8	1188.1	1180.4
22.5°	1157.4	1162.0	1163.5	1155.3	1146.1
25°	1113.9	1122.6	1127.7	1119.5	1109.8
27.5°	1061.2	1074.5	1089.8	1083.7	1072.9
30°	1002.3	1021.7	1047.3	1042.2	1034.5
32.5°	946.5	965.9	1001.3	999.2	995.1
35°	895.8	908.1	949.6	954.7	951.1
37.5°	847.7	859.0	897.9	909.6	906.6
40°	797.0	809.3	840.0	861.0	862.0
42.5°	746.8	758.6	783.7	813.9	813.9
45°	693.6	705.4	728.4	761.7	765.8
47.5°	641.4	653.7	676.2	709.5	716.1
50°	590.2	601.5	624.0	656.2	666.5
52.5°	537.0	549.3	571.3	601.0	615.8
55°	485.8	494.0	518.0	546.7	562.6
57.5°	432.5	440.2	467.4	491.9	508.3
60°	381.4	391.1	412.1	437.2	456.1
62.5°	332.2	342.5	360.4	382.4	403.9
65°	284.6	292.3	309.7	331.7	350.6
67.5°	238.5	245.2	262.6	278.0	297.9
70°	192.0	200.7	213.5	228.3	241.1
72.5°	154.6	158.2	168.9	179.7	193.0
75°	114.2	120.3	129.0	135.1	142.8
77.5°	81.9	85.5	90.6	95.7	102.9
80°	54.8	56.3	60.9	61.9	67.6
82.5°	33.3	34.3	35.3	35.8	37.9
85°	17.9	17.9	17.9	16.9	16.9
87.5°	10.2	10.2	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)