

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: P555639

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-87-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: P555639
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-30-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

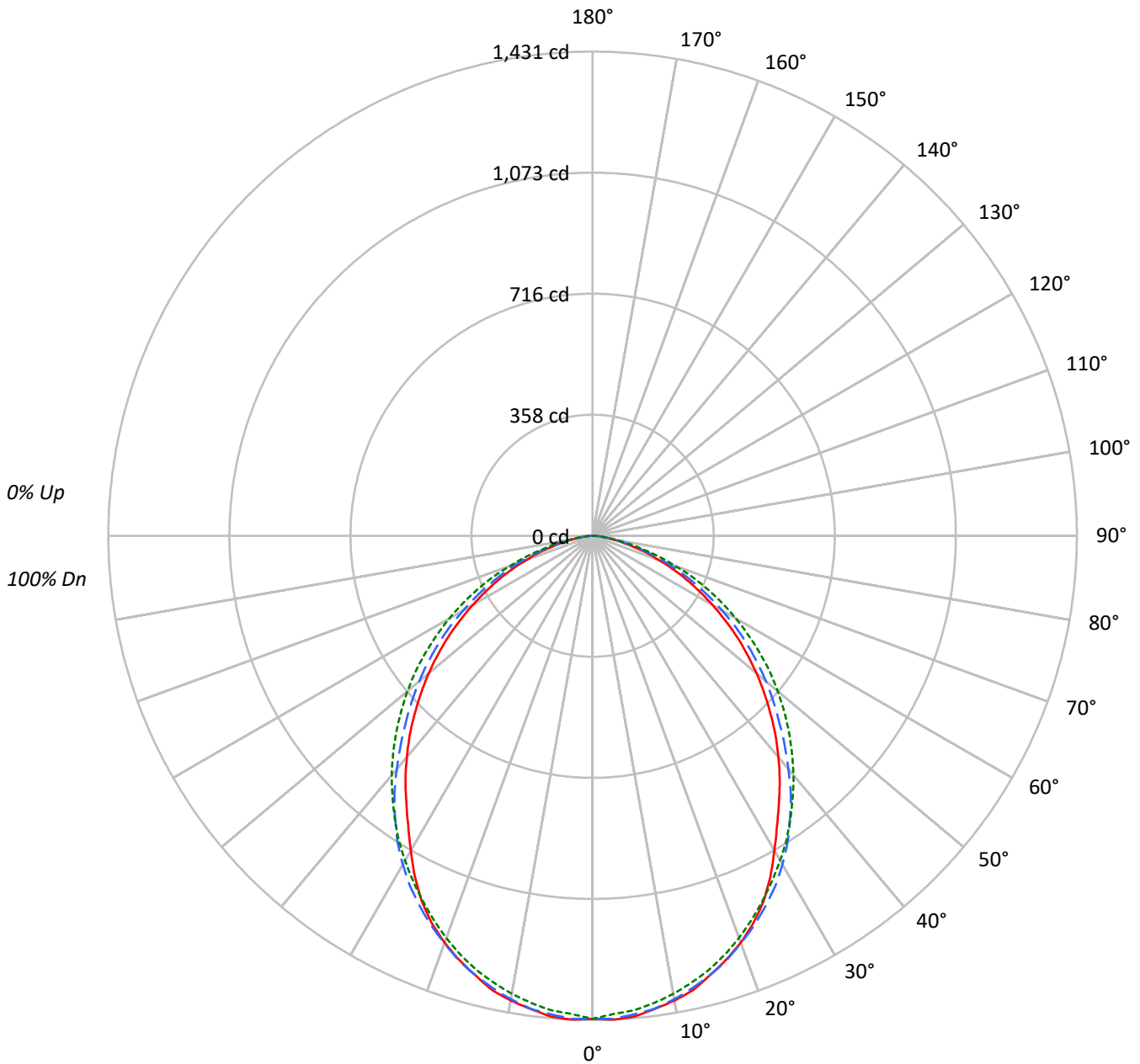
Lumens per Lamp: N/A
Luminaire Lumens: 3301.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7683	7683	7683
5°	7704	7671	7606
10°	7622	7601	7514
15°	7487	7487	7401
20°	7328	7338	7243
25°	7087	7175	7061
30°	6674	6973	6888
35°	6306	6684	6695
40°	5999	6323	6489
45°	5656	5940	6245
50°	5295	5598	5979
55°	4884	5208	5655
60°	4398	4752	5260
65°	3883	4225	4784
70°	3237	3599	4065
75°	2543	2874	3182
80°	1819	2024	2244
85°	1186	1186	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	4.1
10°-20°	377.6	11.4
20°-30°	551.8	16.7
30°-40°	626.4	19.0
40°-50°	604.7	18.3
50°-60°	498.8	15.1
60°-70°	332.2	10.1
70°-80°	148.6	4.5
80°-90°	26.6	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°	1063.8	32.2
0°-40°	1690.2	51.2
0°-60°	2793.6	84.6
0°-90°	3301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1426	1425	1420	1412	1408	135
15°	1344	1347	1344	1338	1328	379
25°	1193	1203	1208	1199	1189	547
35°	960	973	1017	1023	1019	601
45°	743	756	780	816	820	573
55°	520	529	555	586	603	465
65°	305	313	332	355	376	302
75°	122	129	138	145	153	134
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°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1431.4	1432.0	1428.7	1419.9	1414.4
5°	1426.0	1425.4	1419.9	1412.2	1407.9
7.5°	1410.0	1411.1	1409.5	1398.5	1392.5
10°	1394.7	1395.2	1390.9	1382.1	1374.9
12.5°	1374.9	1374.4	1368.4	1364.0	1352.5
15°	1343.7	1347.0	1343.7	1337.7	1328.3
17.5°	1313.5	1313.5	1315.7	1305.3	1298.2
20°	1279.5	1281.2	1281.2	1272.9	1264.7
22.5°	1240.0	1245.0	1246.6	1237.8	1228.0
25°	1193.4	1202.7	1208.2	1199.4	1189.0
27.5°	1136.9	1151.2	1167.6	1161.1	1149.5
30°	1073.9	1094.7	1122.1	1116.6	1108.4
32.5°	1014.1	1034.9	1072.8	1070.6	1066.2
35°	959.8	972.9	1017.4	1022.8	1019.0
37.5°	908.2	920.3	962.0	974.6	971.3
40°	853.9	867.1	900.0	922.5	923.6
42.5°	800.2	812.8	839.7	872.0	872.0
45°	743.1	755.8	780.4	816.1	820.5
47.5°	687.2	700.4	724.5	760.1	767.3
50°	632.4	644.4	668.6	703.1	714.1
52.5°	575.3	588.5	612.1	643.9	659.8
55°	520.5	529.2	555.0	585.7	602.7
57.5°	463.4	471.7	500.7	527.1	544.6
60°	408.6	419.0	441.5	468.4	488.7
62.5°	355.9	366.9	386.1	409.7	432.7
65°	304.9	313.2	331.8	355.4	375.7
67.5°	255.6	262.7	281.4	297.8	319.2
70°	205.7	215.0	228.7	244.6	258.3
72.5°	165.6	169.5	181.0	192.5	206.8
75°	122.3	128.9	138.2	144.8	153.0
77.5°	87.8	91.6	97.1	102.6	110.2
80°	58.7	60.3	65.3	66.4	72.4
82.5°	35.6	36.7	37.8	38.4	40.6
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	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)