

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: P554738

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-85-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: P554738
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-LD4-2HI-40-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

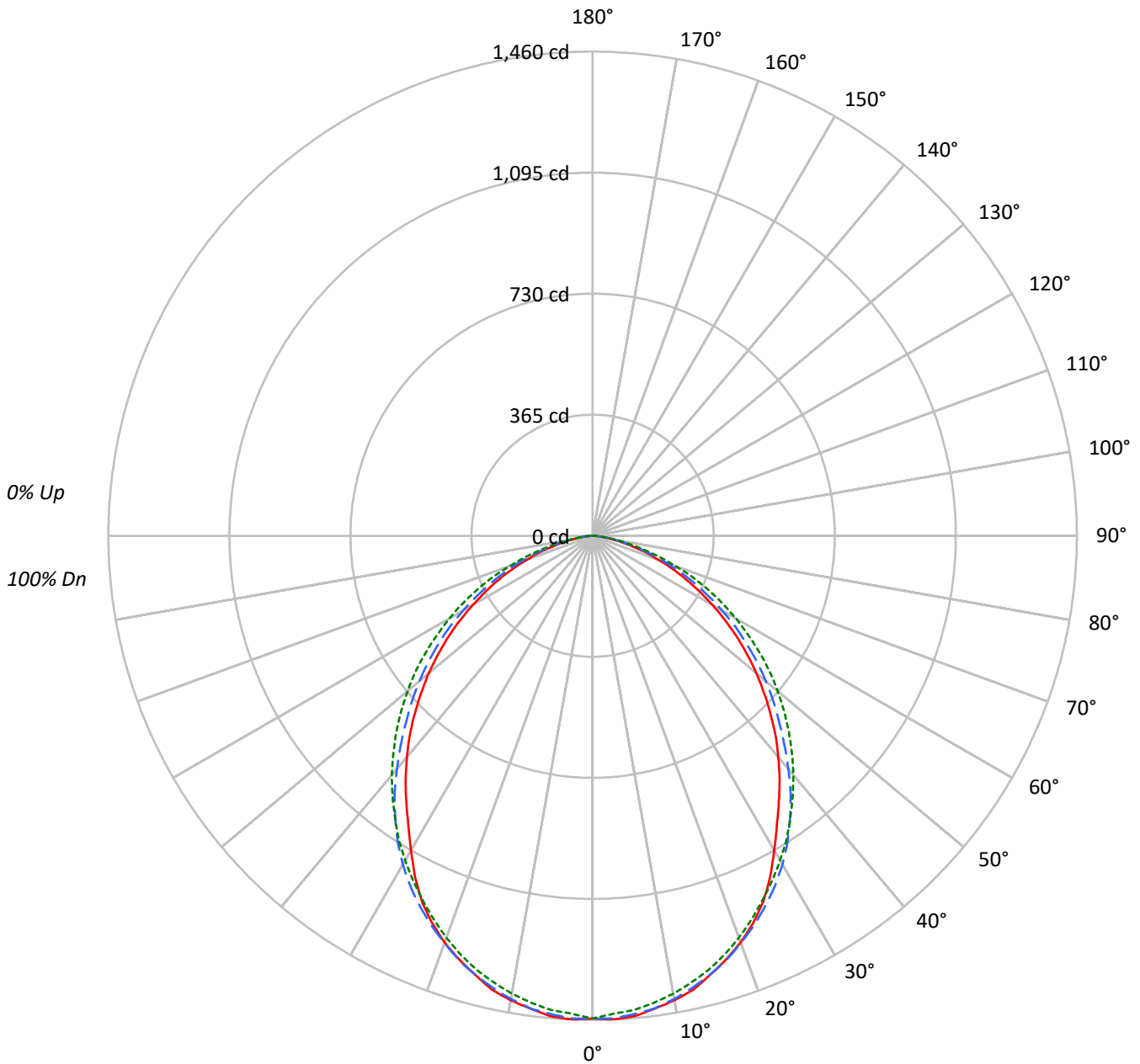
Lumens per Lamp: N/A
Luminaire Lumens: 3366.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

TEST NUMBER: P554738

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-80-85-EDD-90

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°	7835	7835	7835
5°	7855	7822	7756
10°	7772	7750	7662
15°	7634	7634	7547
20°	7472	7482	7386
25°	7226	7316	7200
30°	6805	7111	7024
35°	6430	6816	6827
40°	6117	6447	6617
45°	5768	6057	6368
50°	5399	5708	6096
55°	4980	5311	5767
60°	4484	4846	5364
65°	3959	4308	4879
70°	3300	3670	4145
75°	2593	2930	3244
80°	1853	2061	2287
85°	1210	1210	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	4.1
10°-20°	385.0	11.4
20°-30°	562.7	16.7
30°-40°	638.7	19.0
40°-50°	616.6	18.3
50°-60°	508.6	15.1
60°-70°	338.7	10.1
70°-80°	151.6	4.5
80°-90°	27.1	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°	1084.8	32.2
0°-40°	1723.4	51.2
0°-60°	2848.6	84.6
0°-90°	3366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1454	1454	1448	1440	1436	138
15°	1370	1374	1370	1364	1354	386
25°	1217	1226	1232	1223	1212	557
35°	979	992	1037	1043	1039	613
45°	758	771	796	832	837	585
55°	531	540	566	597	615	474
65°	311	319	338	362	383	308
75°	125	131	141	148	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1459.6	1460.2	1456.8	1447.9	1442.3
5°	1454.0	1453.5	1447.9	1440.0	1435.6
7.5°	1437.8	1438.9	1437.3	1426.1	1419.9
10°	1422.2	1422.7	1418.2	1409.3	1402.0
12.5°	1402.0	1401.5	1395.3	1390.8	1379.1
15°	1370.1	1373.5	1370.1	1364.0	1354.5
17.5°	1339.4	1339.4	1341.6	1331.0	1323.7
20°	1304.7	1306.4	1306.4	1298.0	1289.6
22.5°	1264.4	1269.5	1271.2	1262.2	1252.1
25°	1216.9	1226.4	1232.0	1223.1	1212.4
27.5°	1159.3	1173.8	1190.6	1183.9	1172.2
30°	1095.0	1116.2	1144.2	1138.6	1130.2
32.5°	1034.0	1055.3	1093.9	1091.6	1087.2
35°	978.7	992.1	1037.4	1043.0	1039.1
37.5°	926.1	938.4	980.9	993.8	990.4
40°	870.7	884.2	917.7	940.6	941.8
42.5°	815.9	828.8	856.2	889.2	889.2
45°	757.8	770.6	795.8	832.2	836.6
47.5°	700.7	714.2	738.8	775.1	782.4
50°	644.8	657.1	681.7	716.9	728.1
52.5°	586.6	600.1	624.1	656.6	672.8
55°	530.7	539.7	566.0	597.3	614.6
57.5°	472.6	480.9	510.6	537.4	555.3
60°	416.6	427.3	450.2	477.6	498.3
62.5°	362.9	374.1	393.7	417.8	441.2
65°	310.9	319.3	338.3	362.4	383.1
67.5°	260.6	267.9	286.9	303.7	325.5
70°	209.7	219.2	233.2	249.4	263.4
72.5°	168.9	172.8	184.6	196.3	210.8
75°	124.7	131.4	140.9	147.6	156.0
77.5°	89.5	93.4	99.0	104.6	112.4
80°	59.8	61.5	66.5	67.7	73.8
82.5°	36.4	37.5	38.6	39.1	41.4
85°	19.6	19.6	19.6	18.5	18.5
87.5°	11.2	11.2	9.5	7.8	5.6
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)