

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: P554814

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-97-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: P554814
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-50-UNV-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

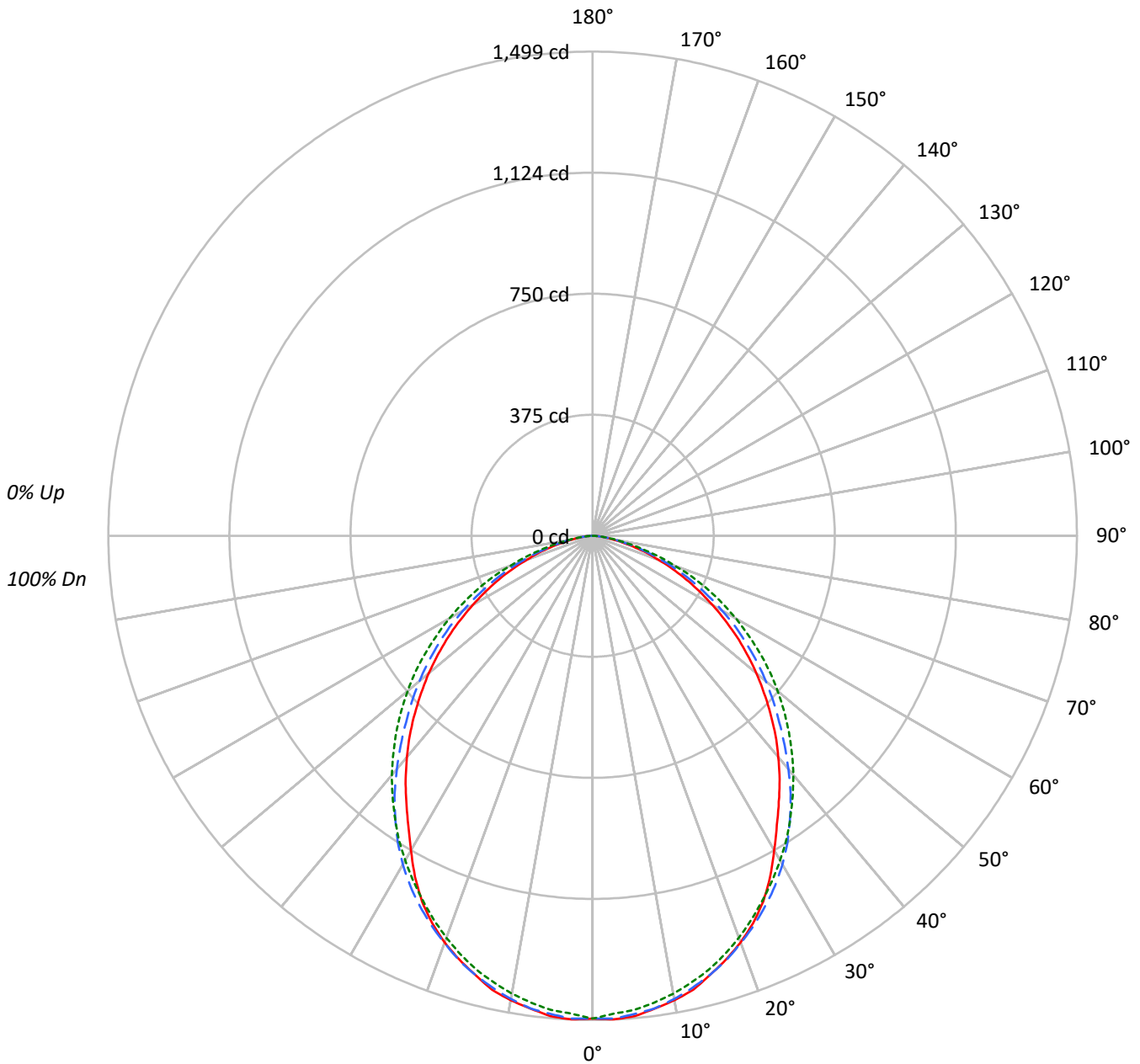
Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	8044	8044	8044
5°	8065	8031	7963
10°	7980	7958	7867
15°	7838	7838	7749
20°	7672	7682	7584
25°	7419	7512	7393
30°	6987	7301	7211
35°	6602	6998	7010
40°	6281	6620	6793
45°	5922	6219	6538
50°	5543	5860	6260
55°	5113	5453	5921
60°	4605	4975	5507
65°	4066	4424	5009
70°	3388	3767	4255
75°	2662	3009	3331
80°	1903	2117	2349
85°	1241	1241	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	4.1
10°-20°	395.3	11.4
20°-30°	577.7	16.7
30°-40°	655.8	19.0
40°-50°	633.0	18.3
50°-60°	522.2	15.1
60°-70°	347.8	10.1
70°-80°	155.6	4.5
80°-90°	27.8	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°	1113.8	32.2
0°-40°	1769.5	51.2
0°-60°	2924.8	84.6
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1493	1492	1487	1479	1474	141
15°	1407	1410	1407	1400	1391	397
25°	1249	1259	1265	1256	1245	572
35°	1005	1019	1065	1071	1067	630
45°	778	791	817	854	859	600
55°	545	554	581	613	631	486
65°	319	328	347	372	393	317
75°	128	135	145	152	160	140
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1498.7	1499.2	1495.8	1486.6	1480.9
5°	1492.9	1492.3	1486.6	1478.6	1474.0
7.5°	1476.3	1477.4	1475.7	1464.2	1457.9
10°	1460.2	1460.8	1456.2	1447.0	1439.5
12.5°	1439.5	1438.9	1432.6	1428.0	1416.0
15°	1406.8	1410.2	1406.8	1400.5	1390.7
17.5°	1375.2	1375.2	1377.5	1366.6	1359.1
20°	1339.6	1341.3	1341.3	1332.7	1324.1
22.5°	1298.3	1303.4	1305.1	1296.0	1285.6
25°	1249.4	1259.2	1265.0	1255.8	1244.9
27.5°	1190.3	1205.2	1222.5	1215.6	1203.5
30°	1124.3	1146.1	1174.8	1169.1	1160.4
32.5°	1061.7	1083.5	1123.1	1120.8	1116.2
35°	1004.8	1018.6	1065.1	1070.9	1066.9
37.5°	950.9	963.5	1007.1	1020.3	1016.9
40°	894.0	907.8	942.3	965.8	966.9
42.5°	837.8	851.0	879.1	913.0	913.0
45°	778.0	791.2	817.1	854.4	859.0
47.5°	719.5	733.2	758.5	795.8	803.3
50°	662.0	674.7	699.9	736.1	747.6
52.5°	602.3	616.1	640.8	674.1	690.8
55°	544.9	554.1	581.1	613.2	631.0
57.5°	485.2	493.8	524.2	551.8	570.2
60°	427.8	438.7	462.2	490.4	511.6
62.5°	372.7	384.1	404.2	428.9	453.0
65°	319.3	327.9	347.4	372.1	393.3
67.5°	267.6	275.0	294.6	311.8	334.2
70°	215.3	225.1	239.4	256.1	270.4
72.5°	173.4	177.4	189.5	201.5	216.5
75°	128.0	134.9	144.7	151.6	160.2
77.5°	91.9	95.9	101.6	107.4	115.4
80°	61.4	63.2	68.3	69.5	75.8
82.5°	37.3	38.5	39.6	40.2	42.5
85°	20.1	20.1	20.1	18.9	18.9
87.5°	11.5	11.5	9.8	8.0	5.7
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)