

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: P555326

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555326
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-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

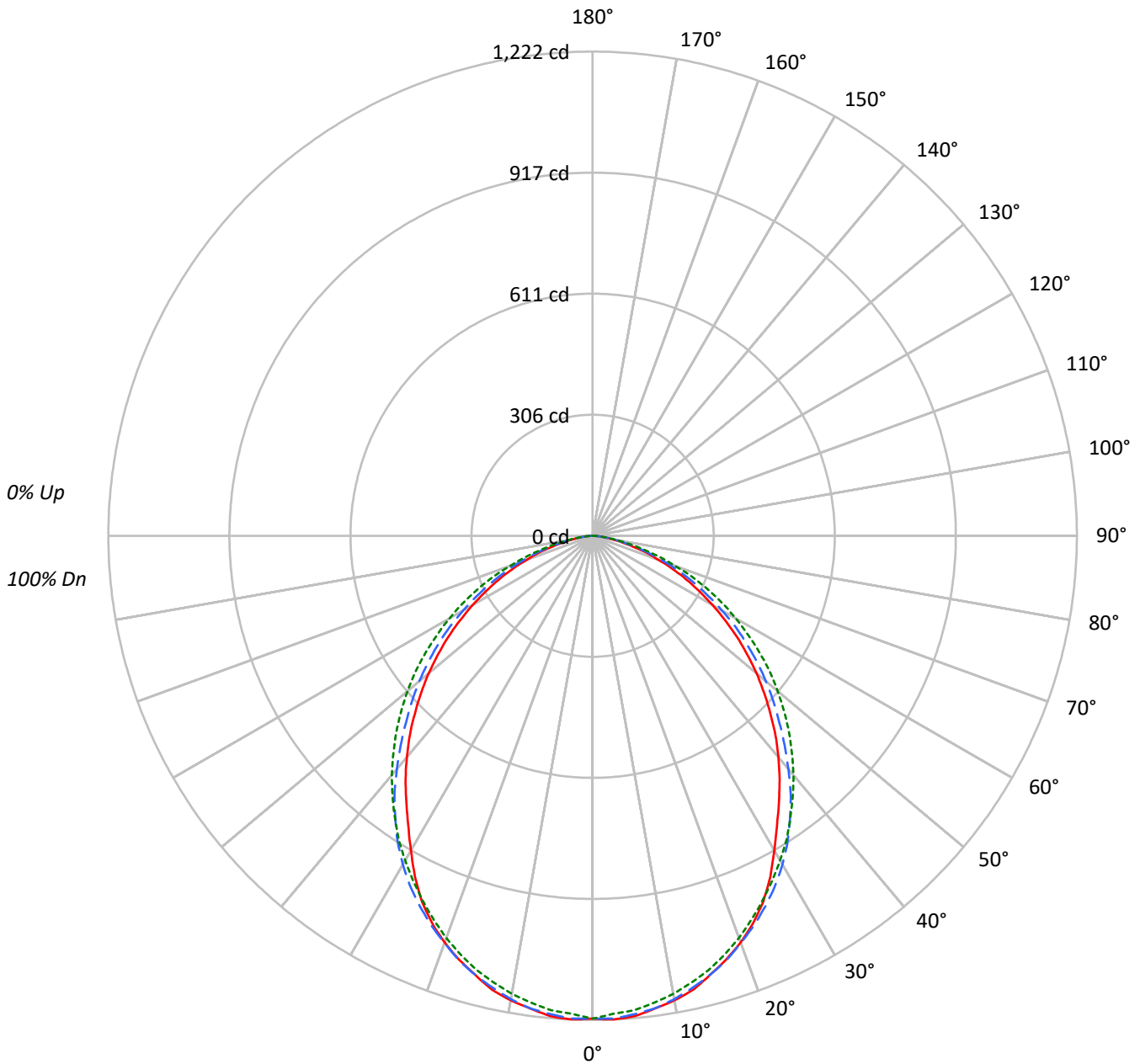
Lumens per Lamp: N/A
Luminaire Lumens: 2818.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-80-97-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°	6559	6559	6559
5°	6576	6549	6493
10°	6507	6489	6415
15°	6391	6391	6318
20°	6256	6264	6184
25°	6050	6125	6027
30°	5697	5953	5880
35°	5383	5706	5715
40°	5122	5398	5539
45°	4829	5071	5331
50°	4520	4778	5104
55°	4169	4446	4828
60°	3754	4057	4491
65°	3315	3608	4084
70°	2763	3072	3470
75°	2171	2454	2716
80°	1553	1726	1915
85°	1013	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.1
10°-20°	322.4	11.4
20°-30°	471.1	16.7
30°-40°	534.7	19.0
40°-50°	516.2	18.3
50°-60°	425.8	15.1
60°-70°	283.6	10.1
70°-80°	126.9	4.5
80°-90°	22.7	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°	908.2	32.2
0°-40°	1442.9	51.2
0°-60°	2384.8	84.6
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1217	1217	1212	1206	1202	115
15°	1147	1150	1147	1142	1134	323
25°	1019	1027	1031	1024	1015	467
35°	819	831	868	873	870	513
45°	634	645	666	697	700	489
55°	444	452	474	500	514	397
65°	260	267	283	303	321	258
75°	104	110	118	124	131	114
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.7	1218.7	1218.7	1218.7	1218.7
2.5°	1222.0	1222.5	1219.6	1212.2	1207.5
5°	1217.3	1216.8	1212.2	1205.6	1201.9
7.5°	1203.7	1204.7	1203.3	1193.9	1188.7
10°	1190.6	1191.1	1187.3	1179.9	1173.8
12.5°	1173.8	1173.3	1168.1	1164.4	1154.6
15°	1147.1	1149.9	1147.1	1141.9	1134.0
17.5°	1121.3	1121.3	1123.2	1114.3	1108.2
20°	1092.3	1093.7	1093.7	1086.7	1079.7
22.5°	1058.6	1062.8	1064.2	1056.7	1048.3
25°	1018.8	1026.8	1031.4	1023.9	1015.0
27.5°	970.6	982.7	996.8	991.2	981.3
30°	916.7	934.5	957.9	953.2	946.2
32.5°	865.7	883.5	915.8	913.9	910.2
35°	819.3	830.6	868.5	873.2	869.9
37.5°	775.3	785.6	821.2	832.0	829.2
40°	729.0	740.2	768.3	787.5	788.4
42.5°	683.1	693.9	716.8	744.4	744.4
45°	634.4	645.2	666.2	696.7	700.4
47.5°	586.6	597.9	618.5	648.9	655.0
50°	539.8	550.1	570.7	600.2	609.6
52.5°	491.1	502.4	522.5	549.7	563.2
55°	444.3	451.8	473.8	500.0	514.5
57.5°	395.6	402.6	427.5	449.9	464.9
60°	348.8	357.7	376.9	399.8	417.2
62.5°	303.9	313.2	329.6	349.7	369.4
65°	260.3	267.3	283.3	303.4	320.7
67.5°	218.2	224.3	240.2	254.2	272.5
70°	175.6	183.5	195.2	208.8	220.5
72.5°	141.4	144.7	154.5	164.3	176.5
75°	104.4	110.0	118.0	123.6	130.6
77.5°	74.9	78.2	82.9	87.6	94.1
80°	50.1	51.5	55.7	56.7	61.8
82.5°	30.4	31.4	32.3	32.8	34.6
85°	16.4	16.4	16.4	15.5	15.5
87.5°	9.4	9.4	8.0	6.6	4.7
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)