

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: P554616

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-88-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: P554616
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-30-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

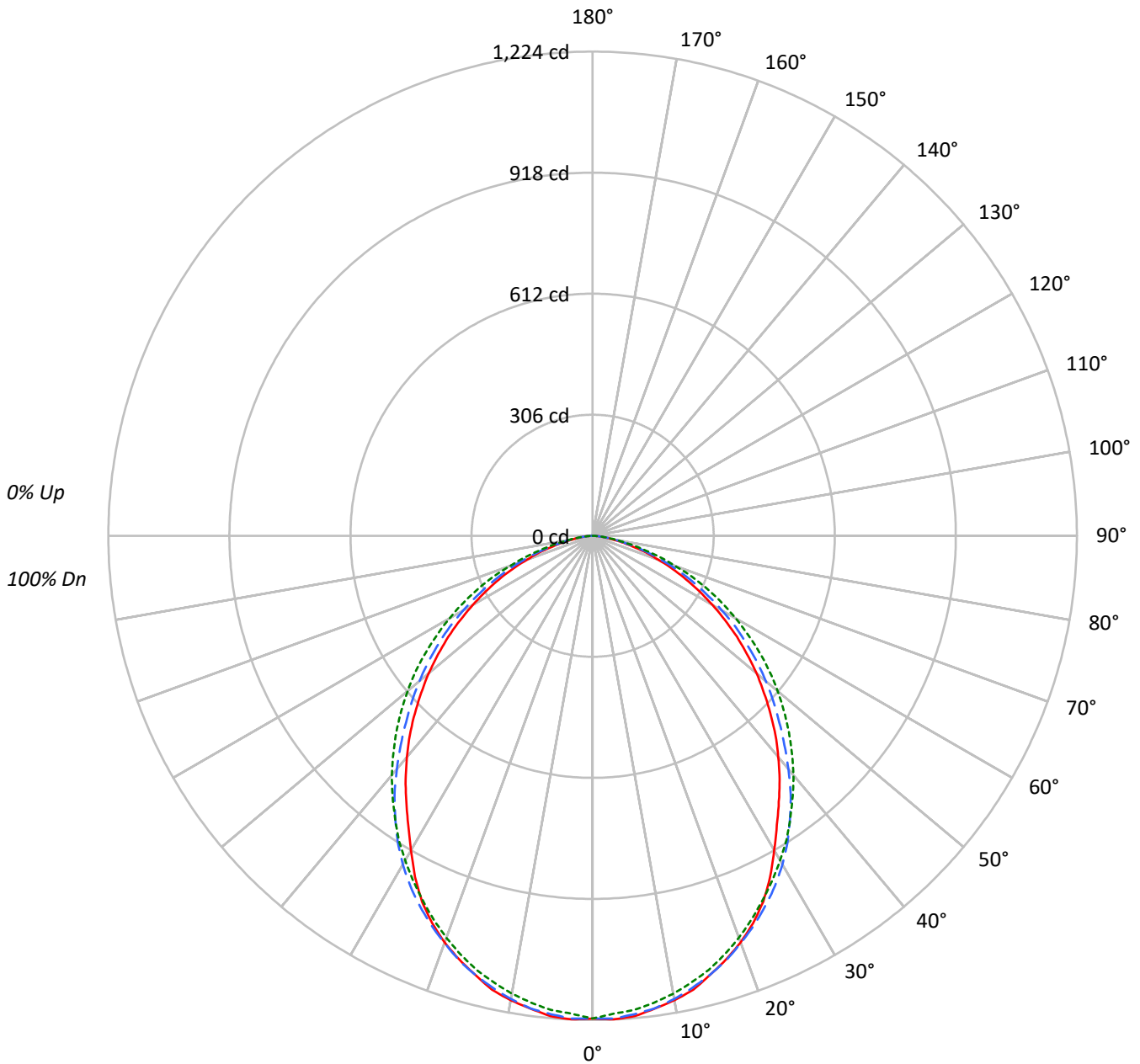
Lumens per Lamp: N/A
Luminaire Lumens: 2822.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554616

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-88-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554616

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-88-EDD-90

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°	6568	6568	6568
5°	6586	6558	6502
10°	6516	6498	6424
15°	6400	6400	6327
20°	6265	6273	6192
25°	6058	6134	6036
30°	5705	5962	5889
35°	5391	5714	5723
40°	5129	5406	5547
45°	4835	5078	5339
50°	4526	4785	5112
55°	4175	4452	4835
60°	3760	4062	4497
65°	3320	3613	4090
70°	2766	3076	3474
75°	2175	2458	2720
80°	1556	1729	1918
85°	1013	1013	957



TEST NUMBER: P554616

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-88-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	4.1
10°-20°	322.8	11.4
20°-30°	471.7	16.7
30°-40°	535.5	19.0
40°-50°	516.9	18.3
50°-60°	426.4	15.1
60°-70°	284.0	10.1
70°-80°	127.1	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°	909.4	32.2
0°-40°	1444.9	51.2
0°-60°	2388.2	84.6
0°-90°	2822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1219	1219	1214	1207	1204	115
15°	1149	1152	1149	1144	1136	324
25°	1020	1028	1033	1025	1016	467
35°	820	832	870	874	871	514
45°	635	646	667	698	701	490
55°	445	452	474	501	515	397
65°	261	268	284	304	321	258
75°	105	110	118	124	131	114
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



TEST NUMBER: P554616

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-88-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1223.7	1224.2	1221.4	1213.9	1209.2
5°	1219.0	1218.6	1213.9	1207.3	1203.6
7.5°	1205.4	1206.4	1205.0	1195.6	1190.4
10°	1192.3	1192.8	1189.0	1181.5	1175.4
12.5°	1175.4	1175.0	1169.8	1166.1	1156.2
15°	1148.7	1151.5	1148.7	1143.5	1135.6
17.5°	1122.9	1122.9	1124.8	1115.9	1109.8
20°	1093.8	1095.3	1095.3	1088.2	1081.2
22.5°	1060.1	1064.3	1065.7	1058.2	1049.8
25°	1020.2	1028.2	1032.9	1025.4	1016.5
27.5°	971.9	984.1	998.2	992.6	982.7
30°	918.0	935.8	959.3	954.6	947.6
32.5°	866.9	884.7	917.1	915.2	911.5
35°	820.5	831.8	869.7	874.4	871.1
37.5°	776.4	786.7	822.4	833.2	830.4
40°	730.0	741.3	769.4	788.6	789.6
42.5°	684.1	694.9	717.8	745.5	745.5
45°	635.3	646.1	667.2	697.7	701.4
47.5°	587.5	598.7	619.4	649.8	655.9
50°	540.6	550.9	571.5	601.1	610.5
52.5°	491.8	503.1	523.2	550.4	564.0
55°	444.9	452.4	474.5	500.7	515.3
57.5°	396.2	403.2	428.1	450.6	465.6
60°	349.3	358.2	377.4	400.4	417.8
62.5°	304.3	313.7	330.1	350.2	369.9
65°	260.7	267.7	283.7	303.8	321.2
67.5°	218.5	224.6	240.5	254.6	272.9
70°	175.8	183.8	195.5	209.1	220.8
72.5°	141.6	144.9	154.7	164.6	176.8
75°	104.6	110.2	118.2	123.8	130.8
77.5°	75.0	78.3	83.0	87.7	94.2
80°	50.2	51.6	55.8	56.7	61.9
82.5°	30.5	31.4	32.4	32.8	34.7
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)