

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: P554806

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-87-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: P554806
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

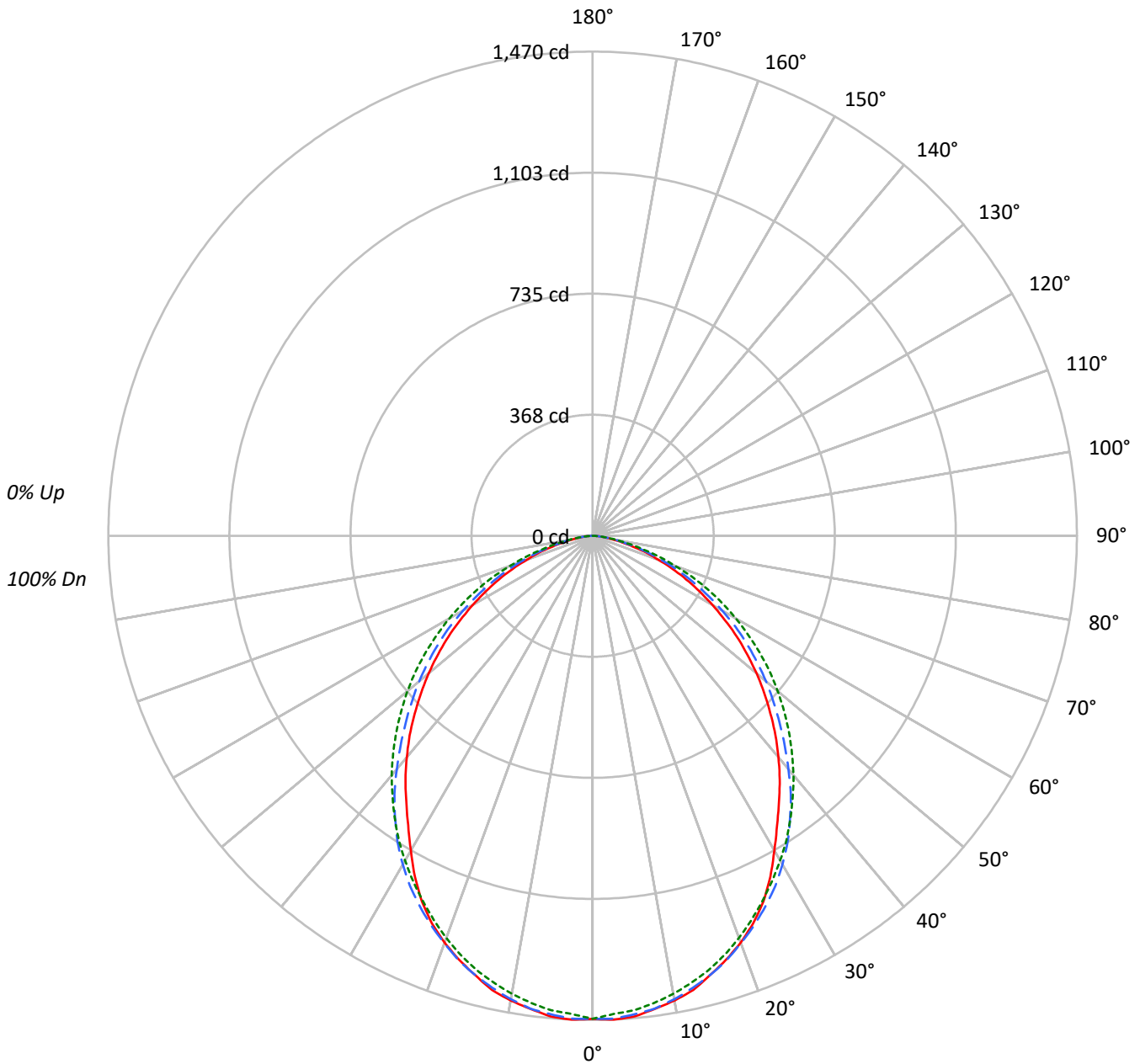
Lumens per Lamp: N/A
Luminaire Lumens: 3391.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554806

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-80-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554806

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-80-87-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°	7893	7893	7893
5°	7914	7880	7813
10°	7830	7808	7719
15°	7691	7691	7603
20°	7528	7538	7441
25°	7280	7371	7253
30°	6855	7164	7076
35°	6478	6866	6878
40°	6163	6495	6666
45°	5810	6102	6415
50°	5439	5750	6141
55°	5017	5350	5810
60°	4518	4881	5403
65°	3989	4341	4914
70°	3325	3696	4176
75°	2612	2953	3269
80°	1869	2077	2306
85°	1216	1216	1149



TEST NUMBER: P554806

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-80-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	4.1
10°-20°	387.9	11.4
20°-30°	566.8	16.7
30°-40°	643.4	19.0
40°-50°	621.1	18.3
50°-60°	512.4	15.1
60°-70°	341.2	10.1
70°-80°	152.7	4.5
80°-90°	27.3	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°	1092.8	32.2
0°-40°	1736.2	51.2
0°-60°	2869.8	84.6
0°-90°	3391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1465	1464	1459	1451	1446	139
15°	1380	1384	1380	1374	1364	389
25°	1226	1236	1241	1232	1221	561
35°	986	1000	1045	1051	1047	618
45°	763	776	802	838	843	589
55°	535	544	570	602	619	477
65°	313	322	341	365	386	311
75°	126	132	142	149	157	137
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



TEST NUMBER: P554806

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-80-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.5	1466.5	1466.5	1466.5	1466.5
2.5°	1470.5	1471.0	1467.6	1458.6	1453.0
5°	1464.8	1464.3	1458.6	1450.7	1446.2
7.5°	1448.5	1449.6	1447.9	1436.7	1430.5
10°	1432.7	1433.3	1428.8	1419.8	1412.4
12.5°	1412.4	1411.9	1405.7	1401.2	1389.3
15°	1380.3	1383.7	1380.3	1374.1	1364.5
17.5°	1349.3	1349.3	1351.6	1340.9	1333.6
20°	1314.4	1316.1	1316.1	1307.6	1299.2
22.5°	1273.8	1278.9	1280.6	1271.6	1261.4
25°	1225.9	1235.5	1241.2	1232.1	1221.4
27.5°	1167.9	1182.6	1199.5	1192.7	1180.9
30°	1103.1	1124.5	1152.7	1147.1	1138.6
32.5°	1041.7	1063.1	1102.0	1099.7	1095.2
35°	985.9	999.5	1045.1	1050.7	1046.8
37.5°	933.0	945.4	988.2	1001.2	997.8
40°	877.2	890.7	924.5	947.6	948.8
42.5°	822.0	835.0	862.6	895.8	895.8
45°	763.4	776.4	801.7	838.3	842.8
47.5°	705.9	719.5	744.2	780.9	788.2
50°	649.6	662.0	686.8	722.3	733.5
52.5°	591.0	604.5	628.7	661.4	677.8
55°	534.7	543.7	570.2	601.7	619.2
57.5°	476.1	484.5	514.4	541.4	559.5
60°	419.7	430.4	453.5	481.1	502.0
62.5°	365.6	376.9	396.6	420.9	444.5
65°	313.2	321.7	340.9	365.1	385.9
67.5°	262.5	269.9	289.0	305.9	327.9
70°	211.3	220.9	234.9	251.3	265.4
72.5°	170.1	174.1	185.9	197.8	212.4
75°	125.6	132.4	142.0	148.7	157.2
77.5°	90.1	94.1	99.7	105.4	113.2
80°	60.3	62.0	67.0	68.2	74.4
82.5°	36.6	37.7	38.9	39.4	41.7
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	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)