

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: P554807

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-87-EDD**

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: P554807
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
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

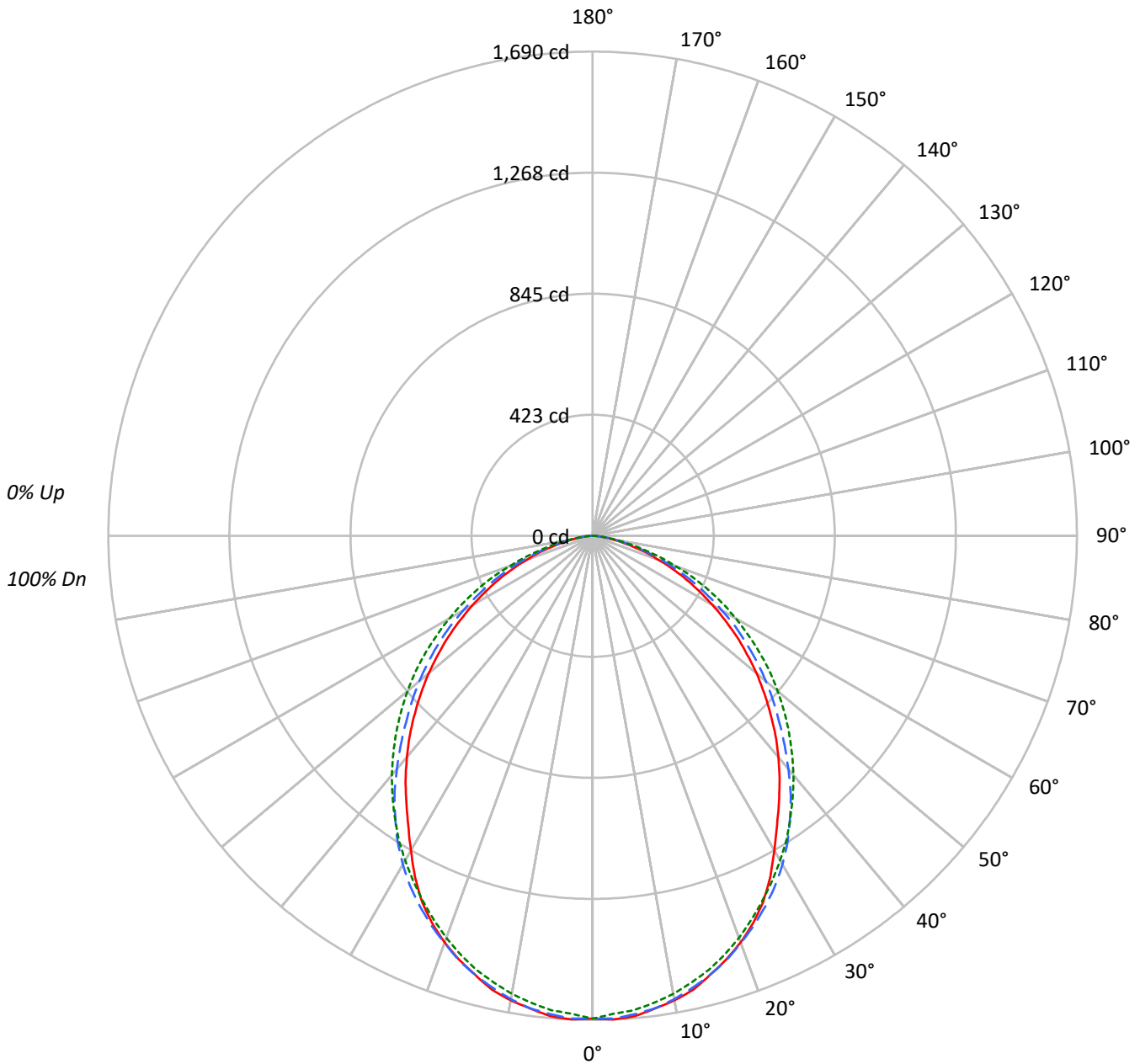
Lumens per Lamp: N/A
Luminaire Lumens: 3897.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554807

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

Luminous Intensity Polar Plot





TEST NUMBER: P554807

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

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°	9071	9071	9071
5°	9095	9056	8979
10°	8998	8974	8871
15°	8839	8839	8738
20°	8651	8663	8552
25°	8367	8470	8336
30°	7878	8232	8132
35°	7445	7891	7904
40°	7083	7465	7660
45°	6677	7012	7372
50°	6250	6609	7058
55°	5765	6148	6677
60°	5193	5610	6210
65°	4585	4988	5648
70°	3821	4249	4799
75°	3003	3394	3755
80°	2148	2386	2650
85°	1402	1402	1321



TEST NUMBER: P554807

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	4.1
10°-20°	445.8	11.4
20°-30°	651.4	16.7
30°-40°	739.4	19.0
40°-50°	713.8	18.3
50°-60°	588.8	15.1
60°-70°	392.1	10.1
70°-80°	175.5	4.5
80°-90°	31.4	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°	1255.9	32.2
0°-40°	1995.3	51.2
0°-60°	3298.0	84.6
0°-90°	3897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1683	1683	1676	1667	1662	159
15°	1586	1590	1586	1579	1568	447
25°	1409	1420	1426	1416	1404	645
35°	1133	1149	1201	1208	1203	710
45°	877	892	921	963	969	677
55°	614	625	655	692	712	548
65°	360	370	392	420	444	357
75°	144	152	163	171	181	158
85°	23	23	23	21	21	31
90°	0	0	0	0	0	



TEST NUMBER: P554807

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.4	1685.4	1685.4	1685.4	1685.4
2.5°	1689.9	1690.5	1686.6	1676.3	1669.8
5°	1683.4	1682.8	1676.3	1667.2	1662.0
7.5°	1664.6	1665.9	1664.0	1651.0	1643.9
10°	1646.5	1647.2	1642.0	1631.6	1623.2
12.5°	1623.2	1622.5	1615.4	1610.2	1596.6
15°	1586.3	1590.2	1586.3	1579.2	1568.2
17.5°	1550.7	1550.7	1553.3	1541.0	1532.6
20°	1510.5	1512.5	1512.5	1502.8	1493.1
22.5°	1463.9	1469.7	1471.7	1461.3	1449.7
25°	1408.9	1419.9	1426.4	1416.0	1403.7
27.5°	1342.2	1359.0	1378.5	1370.7	1357.1
30°	1267.7	1292.3	1324.7	1318.2	1308.5
32.5°	1197.2	1221.8	1266.4	1263.9	1258.7
35°	1133.1	1148.6	1201.0	1207.5	1203.0
37.5°	1072.2	1086.4	1135.7	1150.5	1146.7
40°	1008.1	1023.6	1062.5	1089.0	1090.3
42.5°	944.7	959.5	991.3	1029.5	1029.5
45°	877.3	892.2	921.3	963.4	968.6
47.5°	811.3	826.8	855.3	897.4	905.8
50°	746.5	760.8	789.3	830.1	843.0
52.5°	679.2	694.7	722.6	760.1	778.9
55°	614.4	624.8	655.2	691.5	711.6
57.5°	547.1	556.8	591.1	622.2	642.9
60°	482.4	494.7	521.2	552.9	576.9
62.5°	420.2	433.2	455.8	483.7	510.9
65°	360.0	369.7	391.7	419.6	443.5
67.5°	301.7	310.1	332.1	351.6	376.8
70°	242.8	253.8	270.0	288.8	305.0
72.5°	195.5	200.1	213.7	227.3	244.1
75°	144.4	152.2	163.2	170.9	180.6
77.5°	103.6	108.1	114.6	121.1	130.1
80°	69.3	71.2	77.0	78.3	85.5
82.5°	42.1	43.4	44.7	45.3	47.9
85°	22.7	22.7	22.7	21.4	21.4
87.5°	12.9	12.9	11.0	9.1	6.5
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)