

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: P555544

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-88-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: P555544
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-LD4-3HI-40-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

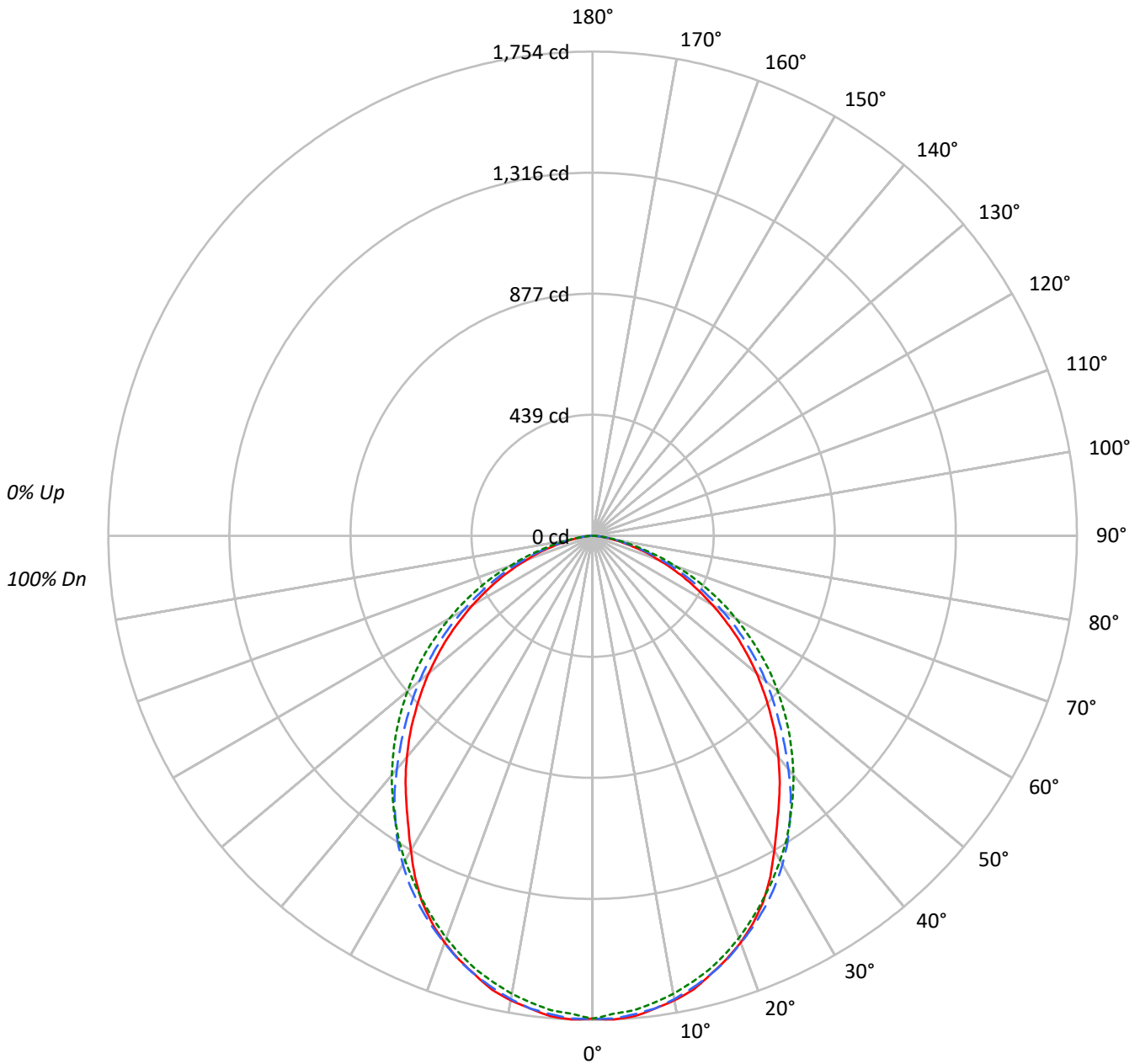
Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P555544

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-82-88-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555544

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-82-88-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°	9415	9415	9415
5°	9440	9400	9320
10°	9340	9314	9207
15°	9174	9174	9069
20°	8980	8991	8876
25°	8684	8792	8652
30°	8178	8545	8441
35°	7727	8191	8204
40°	7352	7748	7951
45°	6931	7279	7652
50°	6488	6859	7326
55°	5985	6381	6930
60°	5389	5823	6445
65°	4759	5178	5863
70°	3965	4409	4980
75°	3117	3523	3899
80°	2228	2479	2749
85°	1451	1451	1371



TEST NUMBER: P555544

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-82-88-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	4.1
10°-20°	462.7	11.4
20°-30°	676.2	16.7
30°-40°	767.5	19.0
40°-50°	740.9	18.3
50°-60°	611.2	15.1
60°-70°	407.0	10.1
70°-80°	182.1	4.5
80°-90°	32.6	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°	1303.6	32.2
0°-40°	2071.1	51.2
0°-60°	3423.3	84.6
0°-90°	4045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1747	1747	1740	1730	1725	165
15°	1646	1651	1646	1639	1628	464
25°	1462	1474	1480	1470	1457	670
35°	1176	1192	1247	1253	1249	737
45°	911	926	956	1000	1005	703
55°	638	648	680	718	739	569
65°	374	384	407	436	460	371
75°	150	158	169	177	188	164
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



TEST NUMBER: P555544

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-82-88-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1754.1	1754.7	1750.7	1739.9	1733.2
5°	1747.3	1746.7	1739.9	1730.5	1725.2
7.5°	1727.9	1729.2	1727.2	1713.7	1706.3
10°	1709.0	1709.7	1704.3	1693.6	1684.8
12.5°	1684.8	1684.2	1676.8	1671.4	1657.3
15°	1646.5	1650.6	1646.5	1639.1	1627.7
17.5°	1609.6	1609.6	1612.3	1599.5	1590.8
20°	1567.9	1569.9	1569.9	1559.8	1549.8
22.5°	1519.5	1525.6	1527.6	1516.8	1504.7
25°	1462.4	1473.8	1480.5	1469.8	1457.0
27.5°	1393.2	1410.6	1430.8	1422.7	1408.6
30°	1315.9	1341.4	1375.0	1368.3	1358.2
32.5°	1242.6	1268.2	1314.5	1311.9	1306.5
35°	1176.1	1192.2	1246.7	1253.4	1248.7
37.5°	1112.9	1127.7	1178.8	1194.2	1190.2
40°	1046.4	1062.5	1102.8	1130.4	1131.7
42.5°	980.5	996.0	1028.9	1068.6	1068.6
45°	910.6	926.1	956.3	1000.0	1005.4
47.5°	842.1	858.2	887.8	931.5	940.2
50°	774.9	789.7	819.2	861.6	875.0
52.5°	705.0	721.1	750.0	789.0	808.5
55°	637.8	648.5	680.1	717.8	738.6
57.5°	567.9	578.0	613.6	645.8	667.4
60°	500.7	513.4	541.0	573.9	598.8
62.5°	436.2	449.6	473.1	502.0	530.3
65°	373.7	383.7	406.6	435.5	460.4
67.5°	313.2	321.9	344.8	364.9	391.1
70°	252.0	263.4	280.2	299.7	316.5
72.5°	203.0	207.7	221.8	235.9	253.4
75°	149.9	157.9	169.4	177.4	187.5
77.5°	107.5	112.2	119.0	125.7	135.1
80°	71.9	73.9	80.0	81.3	88.7
82.5°	43.7	45.0	46.4	47.0	49.7
85°	23.5	23.5	23.5	22.2	22.2
87.5°	13.4	13.4	11.4	9.4	6.7
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)