

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: P554855

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-87-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: P554855
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

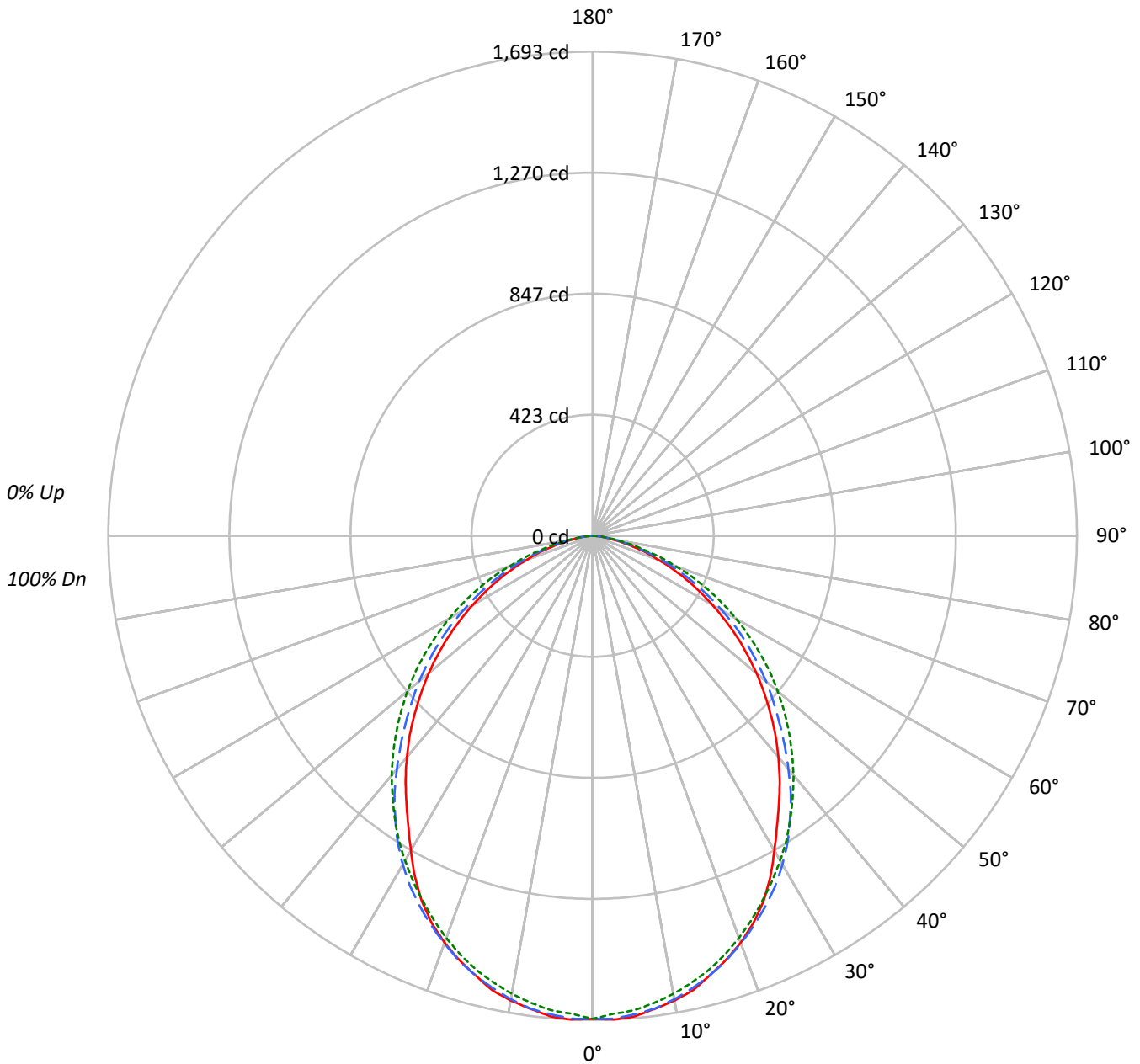
Lumens per Lamp: N/A
Luminaire Lumens: 3905.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554855

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-93-87-EDD

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°	9089	9089	9089
5°	9114	9075	8998
10°	9017	8992	8889
15°	8856	8856	8756
20°	8669	8680	8569
25°	8384	8488	8353
30°	7894	8249	8149
35°	7460	7907	7920
40°	7097	7480	7676
45°	6691	7027	7387
50°	6264	6622	7073
55°	5777	6161	6690
60°	5203	5622	6223
65°	4593	4998	5659
70°	3829	4257	4809
75°	3009	3400	3764
80°	2151	2393	2653
85°	1402	1402	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	4.1
10°-20°	446.7	11.4
20°-30°	652.8	16.7
30°-40°	741.0	19.0
40°-50°	715.3	18.3
50°-60°	590.1	15.1
60°-70°	392.9	10.1
70°-80°	175.8	4.5
80°-90°	31.5	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°	1258.5	32.2
0°-40°	1999.4	51.2
0°-60°	3304.8	84.6
0°-90°	3905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1689	1689	1689	1689	1689	
5°	1687	1686	1680	1671	1666	160
15°	1590	1593	1590	1582	1571	448
25°	1412	1423	1429	1419	1407	647
35°	1135	1151	1204	1210	1206	711
45°	879	894	923	965	971	678
55°	616	626	657	693	713	550
65°	361	370	392	420	444	358
75°	145	152	164	171	181	158
85°	23	23	23	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.8	1688.8	1688.8	1688.8	1688.8
2.5°	1693.4	1694.0	1690.1	1679.7	1673.2
5°	1686.9	1686.2	1679.7	1670.6	1665.5
7.5°	1668.1	1669.3	1667.4	1654.4	1647.3
10°	1649.9	1650.5	1645.3	1635.0	1626.5
12.5°	1626.5	1625.9	1618.7	1613.6	1599.9
15°	1589.5	1593.4	1589.5	1582.4	1571.4
17.5°	1553.9	1553.9	1556.5	1544.1	1535.7
20°	1513.6	1515.6	1515.6	1505.9	1496.1
22.5°	1466.9	1472.8	1474.7	1464.3	1452.7
25°	1411.8	1422.8	1429.3	1418.9	1406.6
27.5°	1345.0	1361.8	1381.3	1373.5	1359.9
30°	1270.3	1295.0	1327.4	1320.9	1311.2
32.5°	1199.6	1224.3	1269.0	1266.4	1261.3
35°	1135.4	1151.0	1203.5	1210.0	1205.5
37.5°	1074.4	1088.7	1138.0	1152.9	1149.0
40°	1010.2	1025.7	1064.7	1091.3	1092.6
42.5°	946.6	961.5	993.3	1031.6	1031.6
45°	879.1	894.0	923.2	965.4	970.6
47.5°	812.9	828.5	857.1	899.2	907.7
50°	748.1	762.3	790.9	831.8	844.7
52.5°	680.6	696.2	724.1	761.7	780.5
55°	615.7	626.1	656.6	692.9	713.0
57.5°	548.2	558.0	592.3	623.5	644.3
60°	483.4	495.7	522.3	554.1	578.1
62.5°	421.1	434.0	456.8	484.6	511.9
65°	360.7	370.5	392.5	420.4	444.4
67.5°	302.3	310.8	332.8	352.3	377.6
70°	243.3	254.3	270.5	289.4	305.6
72.5°	195.9	200.5	214.1	227.7	244.6
75°	144.7	152.5	163.5	171.3	181.0
77.5°	103.8	108.3	114.8	121.3	130.4
80°	69.4	71.4	77.2	78.5	85.6
82.5°	42.2	43.5	44.8	45.4	48.0
85°	22.7	22.7	22.7	21.4	21.4
87.5°	13.0	13.0	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)