

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: P556034

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-81-85-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: P556034
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-LD4-3STD-40-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

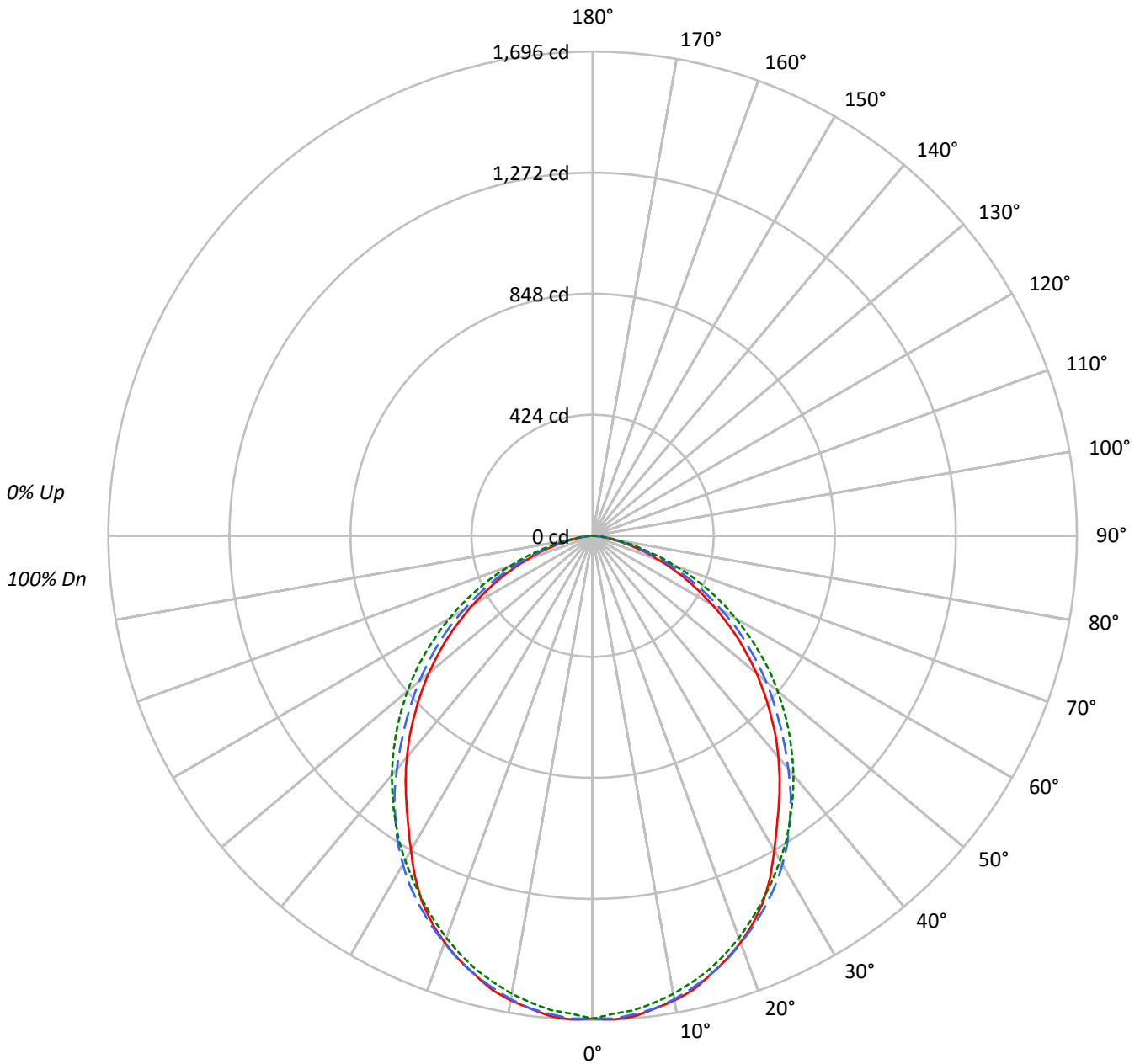
Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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: P556034

CATALOG NUMBER: FUSL-12-2-LD4-3STD-40-UNV-81-85-EDD-90

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°	9103	9103	9103
5°	9128	9089	9011
10°	9030	9006	8902
15°	8870	8870	8769
20°	8683	8694	8582
25°	8396	8501	8365
30°	7907	8262	8161
35°	7471	7920	7932
40°	7108	7491	7687
45°	6702	7038	7399
50°	6273	6632	7083
55°	5787	6170	6701
60°	5211	5631	6232
65°	4601	5006	5668
70°	3835	4264	4817
75°	3013	3404	3770
80°	2154	2396	2659
85°	1402	1402	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	4.1
10°-20°	447.4	11.4
20°-30°	653.8	16.7
30°-40°	742.1	19.0
40°-50°	716.4	18.3
50°-60°	591.0	15.1
60°-70°	393.5	10.1
70°-80°	176.1	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°	1260.4	32.2
0°-40°	2002.5	51.2
0°-60°	3309.9	84.6
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1690	1689	1682	1673	1668	160
15°	1592	1596	1592	1585	1574	449
25°	1414	1425	1432	1421	1409	648
35°	1137	1153	1205	1212	1207	712
45°	880	895	925	967	972	679
55°	617	627	658	694	714	550
65°	361	371	393	421	445	358
75°	145	153	164	172	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°	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1696.0	1696.6	1692.7	1682.3	1675.8
5°	1689.5	1688.8	1682.3	1673.2	1668.0
7.5°	1670.6	1671.9	1670.0	1657.0	1649.8
10°	1652.4	1653.1	1647.9	1637.5	1629.0
12.5°	1629.0	1628.4	1621.2	1616.0	1602.4
15°	1592.0	1595.9	1592.0	1584.8	1573.8
17.5°	1556.2	1556.2	1558.8	1546.5	1538.1
20°	1516.0	1517.9	1517.9	1508.2	1498.4
22.5°	1469.2	1475.0	1477.0	1466.6	1454.9
25°	1413.9	1425.0	1431.5	1421.1	1408.7
27.5°	1347.0	1363.9	1383.4	1375.6	1362.0
30°	1272.3	1297.0	1329.5	1323.0	1313.2
32.5°	1201.5	1226.2	1271.0	1268.4	1263.2
35°	1137.1	1152.7	1205.4	1211.9	1207.3
37.5°	1076.1	1090.3	1139.7	1154.7	1150.8
40°	1011.7	1027.3	1066.3	1092.9	1094.2
42.5°	948.0	963.0	994.8	1033.2	1033.2
45°	880.5	895.4	924.7	966.9	972.1
47.5°	814.2	829.8	858.4	900.6	909.1
50°	749.2	763.5	792.1	833.0	846.0
52.5°	681.6	697.2	725.2	762.9	781.7
55°	616.7	627.0	657.6	694.0	714.1
57.5°	549.1	558.8	593.3	624.4	645.2
60°	484.1	496.4	523.1	554.9	579.0
62.5°	421.7	434.7	457.5	485.4	512.7
65°	361.3	371.0	393.1	421.1	445.1
67.5°	302.8	311.2	333.3	352.8	378.2
70°	243.7	254.7	271.0	289.8	306.1
72.5°	196.2	200.8	214.4	228.1	245.0
75°	144.9	152.7	163.7	171.5	181.3
77.5°	104.0	108.5	115.0	121.5	130.6
80°	69.5	71.5	77.3	78.6	85.8
82.5°	42.2	43.5	44.8	45.5	48.1
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)