

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: P556797

Luminaire Tested: **FUSL-12-4-LD4-1STD-40-UNV-80-96-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: P556797
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-12-4-LD4-1STD-40-UNV-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

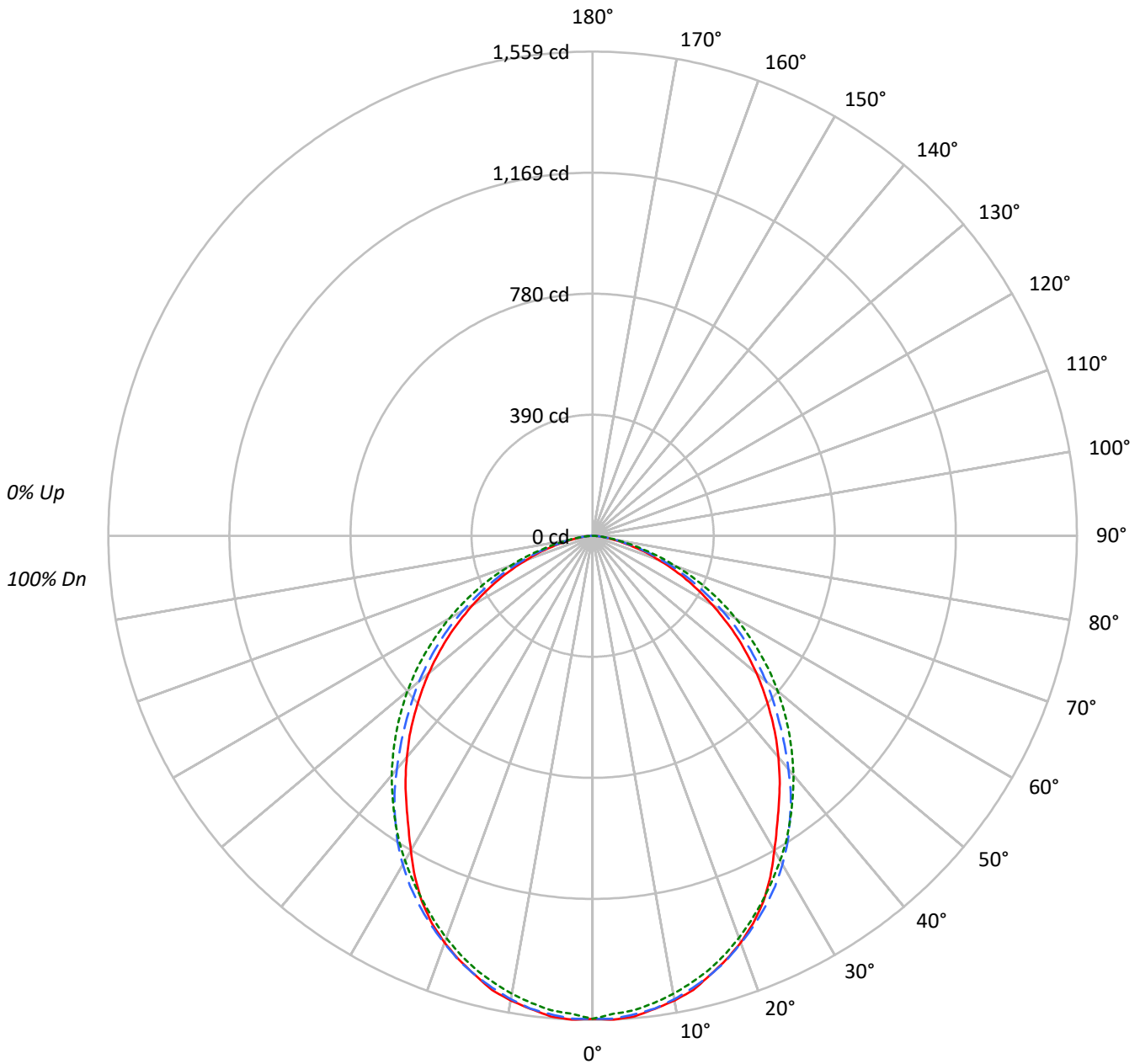
Lumens per Lamp: N/A
Luminaire Lumens: 3596.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

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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°	4185	4185	4185
5°	4196	4178	4143
10°	4151	4140	4093
15°	4078	4078	4031
20°	3992	3997	3945
25°	3860	3908	3846
30°	3635	3798	3752
35°	3435	3641	3647
40°	3268	3444	3534
45°	3081	3236	3401
50°	2884	3049	3257
55°	2660	2837	3080
60°	2396	2589	2865
65°	2115	2302	2606
70°	1762	1960	2214
75°	1385	1566	1733
80°	990	1102	1223
85°	645	645	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	4.1
10°-20°	411.3	11.4
20°-30°	601.1	16.7
30°-40°	682.3	19.0
40°-50°	658.7	18.3
50°-60°	543.4	15.1
60°-70°	361.8	10.1
70°-80°	161.9	4.5
80°-90°	29.0	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°	1158.9	32.2
0°-40°	1841.2	51.2
0°-60°	3043.3	84.6
0°-90°	3596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1553	1553	1547	1538	1534	147
15°	1464	1467	1464	1457	1447	413
25°	1300	1310	1316	1307	1295	595
35°	1046	1060	1108	1114	1110	655
45°	810	823	850	889	894	625
55°	567	576	605	638	657	506
65°	332	341	362	387	409	329
75°	133	140	151	158	167	146
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1559.4	1560.0	1556.4	1546.8	1540.8
5°	1553.4	1552.8	1546.8	1538.4	1533.7
7.5°	1536.1	1537.3	1535.5	1523.5	1516.9
10°	1519.3	1519.9	1515.1	1505.6	1497.8
12.5°	1497.8	1497.2	1490.7	1485.9	1473.3
15°	1463.8	1467.4	1463.8	1457.2	1447.0
17.5°	1430.9	1430.9	1433.3	1421.9	1414.2
20°	1393.9	1395.7	1395.7	1386.7	1377.7
22.5°	1350.8	1356.2	1358.0	1348.5	1337.7
25°	1300.1	1310.2	1316.2	1306.6	1295.3
27.5°	1238.5	1254.1	1272.0	1264.8	1252.3
30°	1169.8	1192.5	1222.4	1216.4	1207.5
32.5°	1104.7	1127.4	1168.6	1166.2	1161.5
35°	1045.5	1059.9	1108.3	1114.3	1110.1
37.5°	989.4	1002.5	1047.9	1061.7	1058.1
40°	930.2	944.6	980.4	1004.9	1006.1
42.5°	871.7	885.4	914.7	950.0	950.0
45°	809.6	823.3	850.2	889.0	893.8
47.5°	748.6	763.0	789.2	828.1	835.8
50°	688.9	702.0	728.3	765.9	777.9
52.5°	626.7	641.1	666.8	701.4	718.7
55°	567.0	576.5	604.6	638.1	656.6
57.5°	504.9	513.8	545.5	574.2	593.3
60°	445.1	456.5	481.0	510.2	532.3
62.5°	387.7	399.7	420.6	446.3	471.4
65°	332.2	341.1	361.5	387.2	409.3
67.5°	278.4	286.2	306.5	324.4	347.7
70°	224.0	234.2	249.1	266.5	281.4
72.5°	180.4	184.6	197.2	209.7	225.2
75°	133.2	140.4	150.6	157.7	166.7
77.5°	95.6	99.8	105.7	111.7	120.1
80°	63.9	65.7	71.1	72.3	78.9
82.5°	38.8	40.0	41.2	41.8	44.2
85°	20.9	20.9	20.9	19.7	19.7
87.5°	11.9	11.9	10.2	8.4	6.0
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)