

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: P556733

Luminaire Tested: **FUSL-12-4-LD4-1STD-35-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: P556733
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

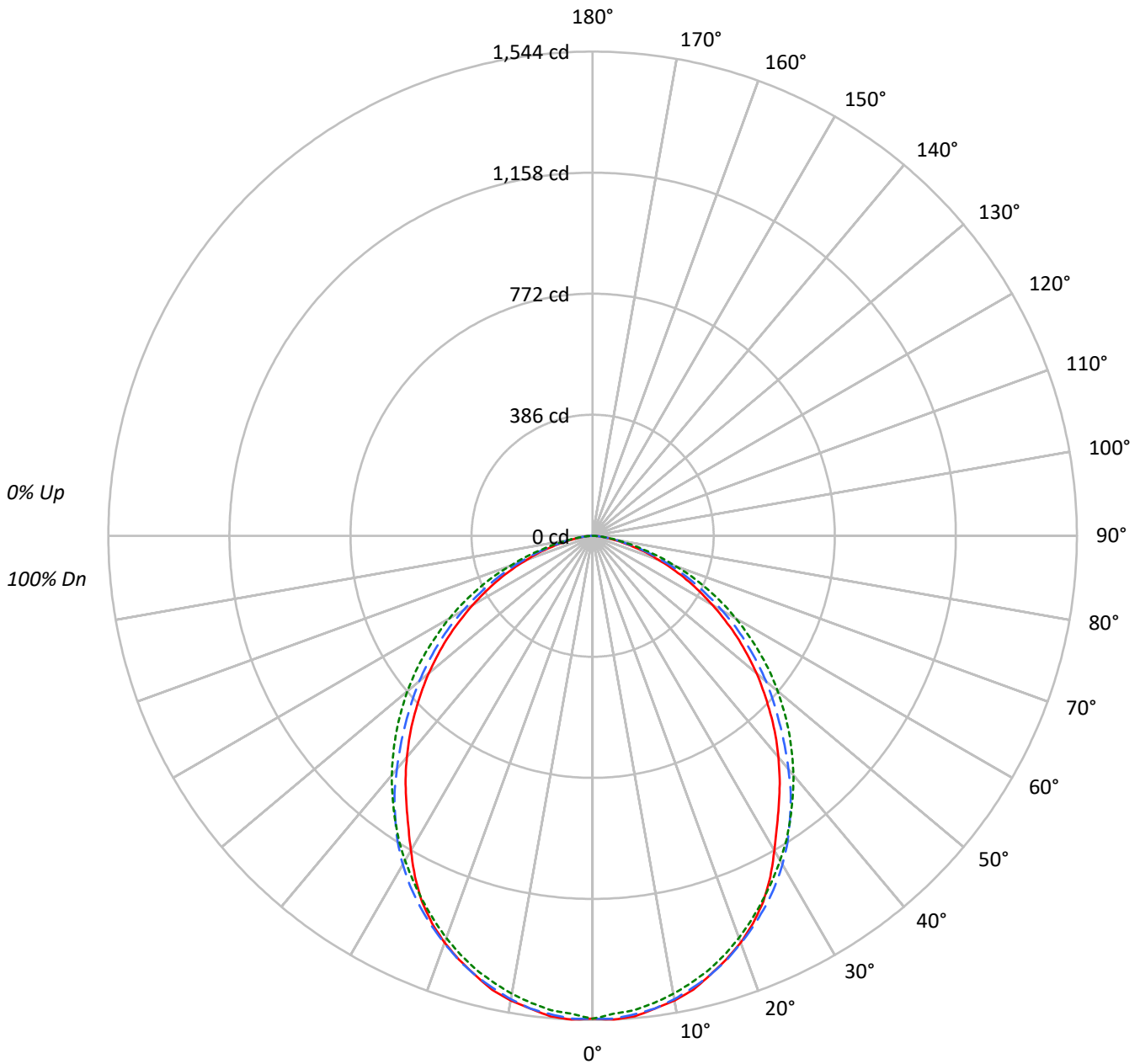
Lumens per Lamp: N/A
Luminaire Lumens: 3561.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4144	4144	4144
5°	4155	4138	4102
10°	4111	4100	4053
15°	4038	4038	3992
20°	3953	3958	3907
25°	3823	3870	3809
30°	3599	3761	3715
35°	3401	3605	3611
40°	3236	3411	3500
45°	3051	3204	3368
50°	2856	3019	3225
55°	2634	2809	3050
60°	2372	2563	2837
65°	2095	2279	2581
70°	1746	1941	2193
75°	1371	1550	1717
80°	981	1091	1210
85°	639	639	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	4.1
10°-20°	407.3	11.4
20°-30°	595.3	16.7
30°-40°	675.7	19.0
40°-50°	652.3	18.3
50°-60°	538.1	15.1
60°-70°	358.3	10.1
70°-80°	160.3	4.5
80°-90°	28.7	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°	1147.6	32.2
0°-40°	1823.3	51.2
0°-60°	3013.7	84.6
0°-90°	3561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1538	1538	1532	1524	1519	146
15°	1450	1453	1450	1443	1433	409
25°	1287	1298	1303	1294	1283	590
35°	1035	1050	1098	1103	1099	649
45°	802	815	842	880	885	619
55°	562	571	599	632	650	501
65°	329	338	358	383	405	326
75°	132	139	149	156	165	144
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°	1540.0	1540.0	1540.0	1540.0	1540.0
2.5°	1544.2	1544.8	1541.2	1531.8	1525.8
5°	1538.3	1537.7	1531.8	1523.5	1518.7
7.5°	1521.1	1522.3	1520.5	1508.7	1502.2
10°	1504.5	1505.1	1500.4	1490.9	1483.2
12.5°	1483.2	1482.7	1476.1	1471.4	1459.0
15°	1449.5	1453.1	1449.5	1443.0	1433.0
17.5°	1417.0	1417.0	1419.3	1408.1	1400.4
20°	1380.3	1382.1	1382.1	1373.2	1364.3
22.5°	1337.7	1343.0	1344.8	1335.3	1324.7
25°	1287.4	1297.5	1303.4	1293.9	1282.7
27.5°	1226.5	1241.9	1259.6	1252.5	1240.1
30°	1158.4	1180.9	1210.5	1204.6	1195.7
32.5°	1093.9	1116.4	1157.2	1154.9	1150.1
35°	1035.4	1049.6	1097.5	1103.4	1099.3
37.5°	979.8	992.8	1037.7	1051.3	1047.8
40°	921.2	935.4	970.9	995.1	996.3
42.5°	863.2	876.8	905.8	940.7	940.7
45°	801.7	815.3	841.9	880.4	885.1
47.5°	741.3	755.5	781.6	820.0	827.7
50°	682.2	695.2	721.2	758.5	770.3
52.5°	620.6	634.8	660.3	694.6	711.7
55°	561.5	570.9	598.7	631.9	650.2
57.5°	499.9	508.8	540.2	568.6	587.5
60°	440.8	452.0	476.3	505.3	527.2
62.5°	384.0	395.8	416.5	442.0	466.8
65°	329.0	337.8	357.9	383.4	405.3
67.5°	275.7	283.4	303.5	321.3	344.3
70°	221.9	231.9	246.7	263.9	278.7
72.5°	178.7	182.8	195.2	207.7	223.0
75°	131.9	139.0	149.1	156.2	165.1
77.5°	94.7	98.8	104.7	110.6	118.9
80°	63.3	65.1	70.4	71.6	78.1
82.5°	38.5	39.6	40.8	41.4	43.8
85°	20.7	20.7	20.7	19.5	19.5
87.5°	11.8	11.8	10.1	8.3	5.9
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)