

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: P556799

Luminaire Tested: **FUSL-12-4-LD4-1STD-40-UNV-80-97-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: P556799
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-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

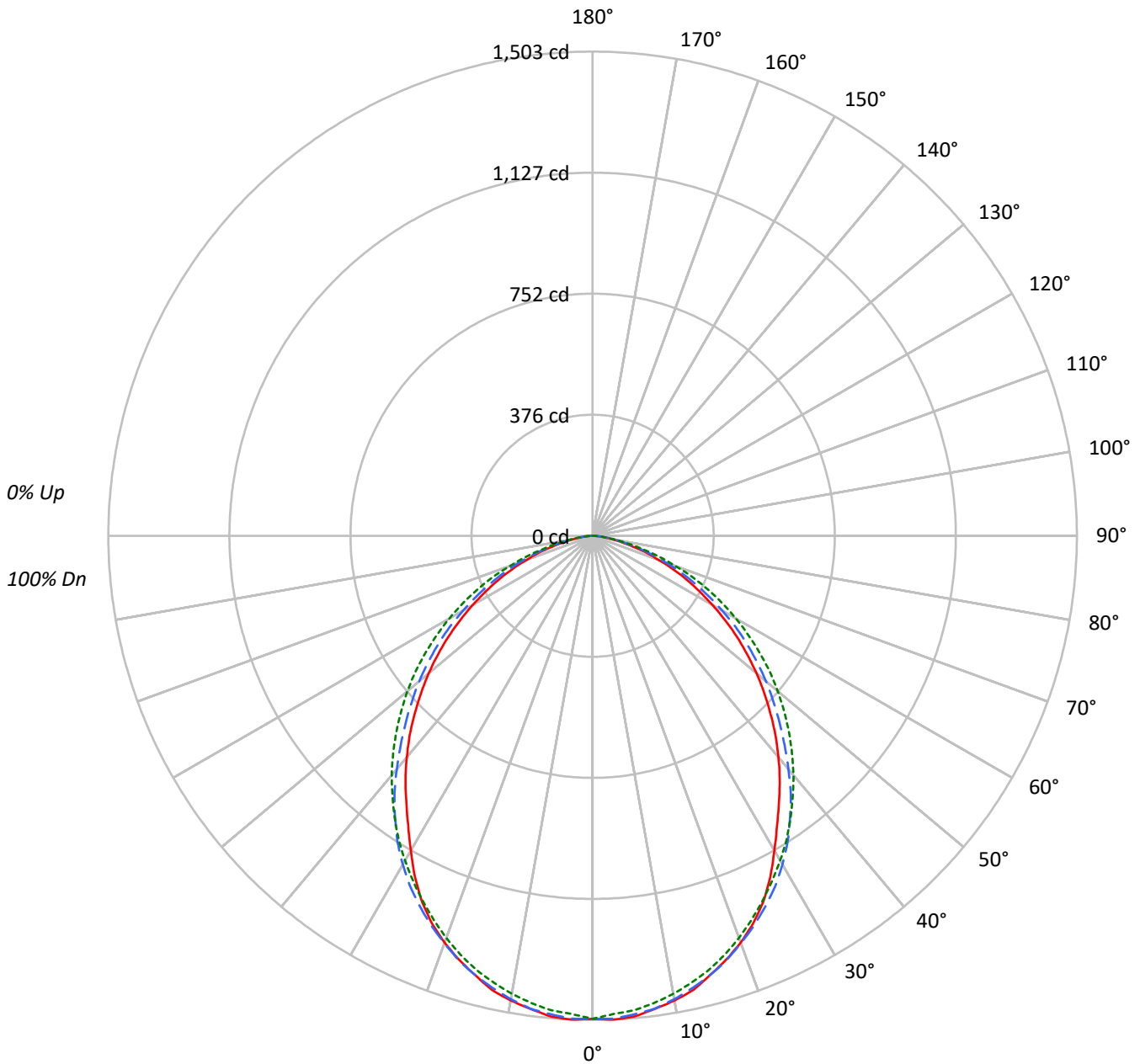
Lumens per Lamp: N/A
Luminaire Lumens: 3467.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4035	4035	4035
5°	4046	4028	3994
10°	4003	3992	3946
15°	3932	3932	3887
20°	3848	3853	3804
25°	3722	3768	3708
30°	3505	3662	3617
35°	3311	3510	3516
40°	3151	3321	3407
45°	2970	3119	3279
50°	2781	2940	3140
55°	2564	2735	2970
60°	2309	2496	2762
65°	2039	2219	2513
70°	1699	1890	2135
75°	1336	1510	1671
80°	955	1062	1178
85°	624	624	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	4.1
10°-20°	396.6	11.4
20°-30°	579.6	16.7
30°-40°	657.9	19.0
40°-50°	635.1	18.3
50°-60°	523.9	15.1
60°-70°	348.9	10.1
70°-80°	156.1	4.5
80°-90°	27.9	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°	1117.3	32.2
0°-40°	1775.2	51.2
0°-60°	2934.1	84.6
0°-90°	3467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1498	1497	1491	1483	1479	142
15°	1411	1415	1411	1405	1395	398
25°	1253	1263	1269	1260	1249	574
35°	1008	1022	1068	1074	1070	632
45°	780	794	820	857	862	602
55°	547	556	583	615	633	488
65°	320	329	348	373	395	318
75°	128	135	145	152	161	140
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.4	1499.4	1499.4	1499.4	1499.4
2.5°	1503.4	1504.0	1500.5	1491.3	1485.6
5°	1497.7	1497.1	1491.3	1483.3	1478.7
7.5°	1481.0	1482.1	1480.4	1468.9	1462.5
10°	1464.8	1465.4	1460.8	1451.6	1444.1
12.5°	1444.1	1443.5	1437.2	1432.6	1420.5
15°	1411.3	1414.7	1411.3	1404.9	1395.1
17.5°	1379.6	1379.6	1381.9	1370.9	1363.4
20°	1343.9	1345.6	1345.6	1336.9	1328.3
22.5°	1302.4	1307.6	1309.3	1300.1	1289.7
25°	1253.4	1263.2	1269.0	1259.8	1248.8
27.5°	1194.1	1209.1	1226.4	1219.4	1207.3
30°	1127.9	1149.7	1178.5	1172.8	1164.1
32.5°	1065.1	1087.0	1126.7	1124.4	1119.8
35°	1008.0	1021.9	1068.5	1074.3	1070.3
37.5°	953.9	966.6	1010.3	1023.6	1020.1
40°	896.9	910.7	945.3	968.9	970.0
42.5°	840.4	853.7	881.9	915.9	915.9
45°	780.5	793.8	819.7	857.1	861.7
47.5°	721.8	735.6	760.9	798.4	805.9
50°	664.2	676.8	702.2	738.5	750.0
52.5°	604.2	618.1	642.8	676.3	693.0
55°	546.6	555.9	582.9	615.2	633.0
57.5°	486.7	495.4	525.9	553.6	572.0
60°	429.1	440.1	463.7	491.9	513.2
62.5°	373.8	385.4	405.5	430.3	454.5
65°	320.3	328.9	348.5	373.3	394.6
67.5°	268.4	275.9	295.5	312.8	335.2
70°	216.0	225.8	240.2	256.9	271.3
72.5°	174.0	178.0	190.1	202.2	217.2
75°	128.5	135.4	145.2	152.1	160.7
77.5°	92.2	96.2	102.0	107.7	115.8
80°	61.6	63.4	68.5	69.7	76.0
82.5°	37.4	38.6	39.7	40.3	42.6
85°	20.2	20.2	20.2	19.0	19.0
87.5°	11.5	11.5	9.8	8.1	5.8
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)