

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: P555707

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-94-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: P555707
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-LD4-3LO-35-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

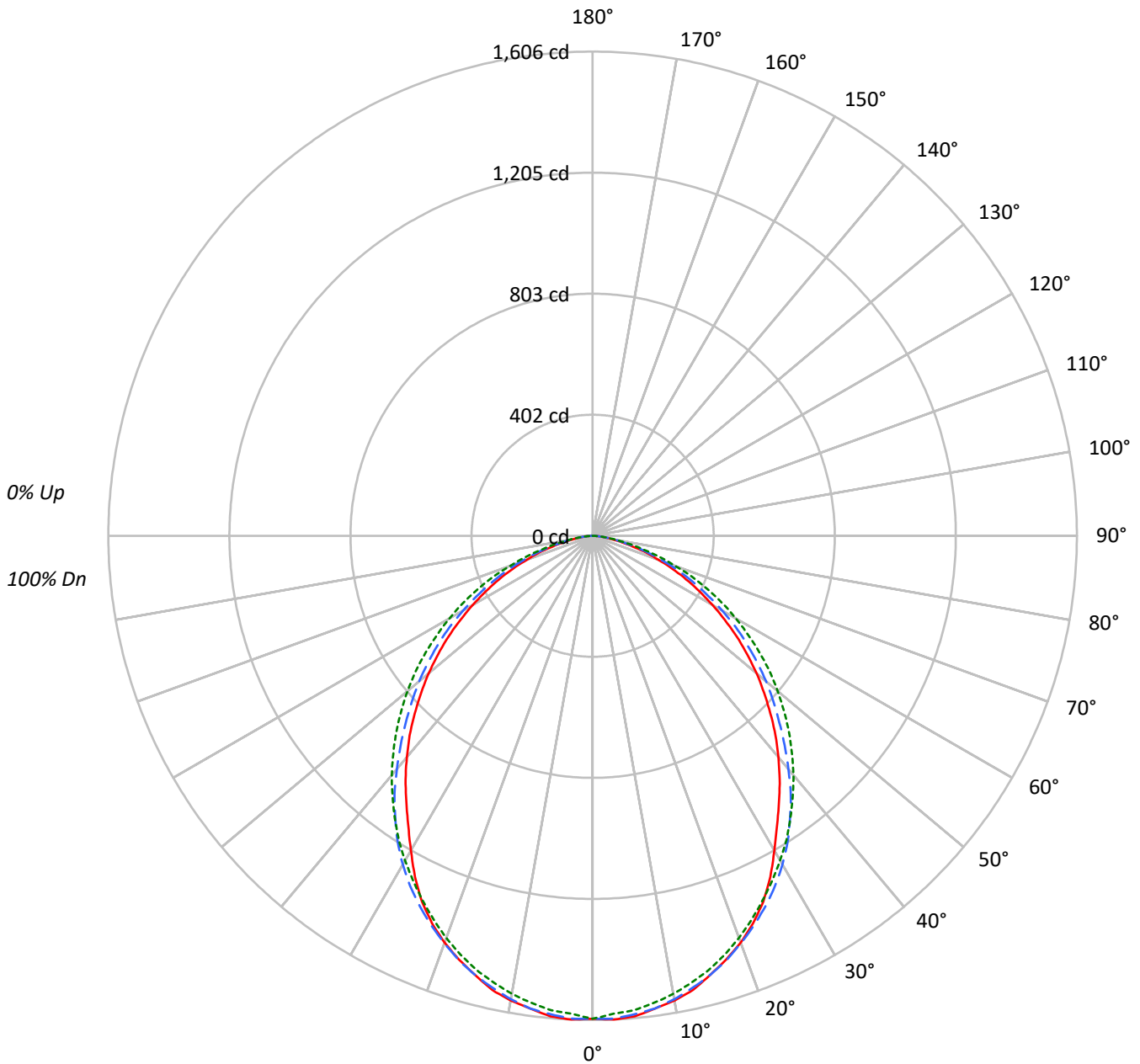
Lumens per Lamp: N/A
Luminaire Lumens: 3704.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8621	8621	8621
5°	8644	8608	8534
10°	8553	8529	8431
15°	8401	8401	8305
20°	8223	8234	8128
25°	7952	8051	7923
30°	7489	7825	7729
35°	7075	7500	7512
40°	6732	7095	7281
45°	6347	6665	7007
50°	5941	6281	6708
55°	5480	5844	6346
60°	4935	5332	5902
65°	4358	4741	5368
70°	3632	4038	4562
75°	2853	3225	3570
80°	2039	2269	2517
85°	1328	1328	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	4.1
10°-20°	423.7	11.4
20°-30°	619.2	16.7
30°-40°	702.8	19.0
40°-50°	678.5	18.3
50°-60°	559.7	15.1
60°-70°	372.7	10.1
70°-80°	166.8	4.5
80°-90°	29.8	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°	1193.7	32.2
0°-40°	1896.5	51.2
0°-60°	3134.7	84.6
0°-90°	3704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1600	1599	1593	1585	1580	151
15°	1508	1511	1508	1501	1490	425
25°	1339	1350	1356	1346	1334	613
35°	1077	1092	1142	1148	1143	675
45°	834	848	876	916	921	643
55°	584	594	623	657	676	521
65°	342	351	372	399	422	339
75°	137	145	155	162	172	150
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1606.2	1606.8	1603.1	1593.3	1587.1
5°	1600.0	1599.4	1593.3	1584.7	1579.7
7.5°	1582.2	1583.4	1581.6	1569.3	1562.5
10°	1565.0	1565.6	1560.7	1550.8	1542.8
12.5°	1542.8	1542.2	1535.4	1530.5	1517.6
15°	1507.7	1511.4	1507.7	1501.0	1490.5
17.5°	1473.9	1473.9	1476.3	1464.7	1456.7
20°	1435.7	1437.6	1437.6	1428.3	1419.1
22.5°	1391.4	1397.0	1398.8	1389.0	1377.9
25°	1339.1	1349.6	1355.7	1345.9	1334.2
27.5°	1275.7	1291.7	1310.2	1302.8	1289.9
30°	1205.0	1228.3	1259.1	1253.0	1243.7
32.5°	1137.9	1161.3	1203.7	1201.3	1196.3
35°	1076.9	1091.7	1141.6	1147.7	1143.4
37.5°	1019.1	1032.6	1079.4	1093.6	1089.9
40°	958.2	972.9	1009.9	1035.1	1036.3
42.5°	897.9	912.0	942.2	978.5	978.5
45°	833.9	848.0	875.7	915.7	920.6
47.5°	771.1	785.9	812.9	852.9	860.9
50°	709.6	723.1	750.2	788.9	801.2
52.5°	645.6	660.3	686.8	722.5	740.3
55°	584.0	593.9	622.8	657.2	676.3
57.5°	520.0	529.2	561.9	591.4	611.1
60°	458.5	470.2	495.4	525.6	548.3
62.5°	399.4	411.7	433.2	459.7	485.6
65°	342.2	351.4	372.3	398.8	421.5
67.5°	286.8	294.8	315.7	334.2	358.2
70°	230.8	241.2	256.6	274.5	289.9
72.5°	185.9	190.2	203.1	216.0	232.0
75°	137.2	144.6	155.1	162.5	171.7
77.5°	98.5	102.8	108.9	115.1	123.7
80°	65.8	67.7	73.2	74.5	81.2
82.5°	40.0	41.2	42.5	43.1	45.5
85°	21.5	21.5	21.5	20.3	20.3
87.5°	12.3	12.3	10.5	8.6	6.2
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)